January 30, 2004
Supersedes October 15, 2003

BEFORE SUBMITTING YOUR BID

1. **Use pen and ink to complete the Bid.**

2. **Have you signed and completed the Contract Agreement, Offer & Award Forms?**

3. **As a minimum, the Bidder will submit a Bid Package consisting of the Notice to Contractors, the completed Acknowledgement of Bid Amendments & Submission of Bid Bond Validation Number form, the completed Schedule of Items, 2 copies of the completed Agreement, Offer, & Award form, a Bid Bond or Bid Guarantee, and any other Certifications or Bid Requirements listed in the Bid Book.**

4. **Have you included prices for all Bid Items? ("Zero is not considered a bid price.")**

5. **Have you included a bid guarantee? Acceptable forms are:**

   A. **Bid Bond on the Department's prescribed form for 5% of the Bid Amount. (Or forms that do not contain any significant variations from the Department's forms as solely determined by the Department.)**

   B. **Official Bank Check, Cashier's Check, Certified Check, U.S. Postal Money Order or Negotiable Certificate of Deposit in the amount stated in the Notice to Contractors.**

6. **If the written Bid is to be sent, Federal Express overnight delivery is suggested as the package is delivered directly to the DOT Headquarters Building in Augusta. Other means, such as U.S. Postal Services' Express Mail has proven not to be reliable.**

AND FOR FEDERAL AID PROJECTS

7. **Have you included your DBE Utilization commitment in the proper amounts and signed the DBE Certification?**

If you need further information regarding Bid preparation, call the DOT Contracts Section at (207)624-3410.

For complete specifications regarding bidding requirements, refer to Section 102 of the Maine Department of Transportation, Standard Specifications, Revision December 2002.

January 30, 2004
Supercedes February 11, 2003

NOTICE

The Maine Department of Transportation is attempting to improve the way Bid Amendments/Addendums are handled, and allow for an electronic downloading of bid packages from our website, while continuing to maintain a planholders list.

Prospective bidders, subcontractors or suppliers who wish to download a copy of the bid package and receive a courtesy notification of project specific bid amendments, must provide an email address to Diane Barnes at the MDOT Contracts mailbox at: MDOT.contracts@maine.gov. Each bid package will require a separate request.

Additionally, interested parties will be responsible for reviewing and retrieving the Bid Amendments from our web site, and acknowledging receipt and incorporating those Bid Amendments in their bids using the Acknowledgement of Bid Amendment Form.

The downloading of bid packages from the MDOT website is not the same as providing an electronic bid to the Department. Electronic bids must be submitted via **http://www.BIDX.com**. For information on electronic bidding contract Rebecca Pooler at **rebecca.pooler@maine.gov**.

NOTICE

For security and other reasons, all Bid Packages which are mailed, shall be provided in double (one envelope inside the other) envelopes. The *Inner Envelope* shall have the following information provided on it:

Bid Enclosed - Do Not Open
PIN:
Town:
Date of Bid Opening:
Name of Contractor with mailing address and telephone number:

In Addition to the usual address information, the *Outer Envelope* should have written or typed on it:

Double Envelope: Bid Enclosed
PIN:
Town:
Date of Bid Opening:
Name of Contractor:
This should not be much of a change for those of you who use Federal Express or similar services.

Hand-carried Bids may be in one envelope as before, and should be marked with the following infrormation:

Bid Enclosed: Do Not Open
PIN:
Town:
Name of Contractor:

STATE OF MAINE DEPARTMENT OF TRANSPORTATION

Bid Guaranty-Bid Bond Form

KNOW ALL MEN BY THESE PRESENTS THAT_____

_____, of the City/Town of _____and State of_____

as Principal, and _____as Surety, a

Corporation duly organized under the laws of the State of_____and having a usual place of

Business in _____and hereby held and firmly bound unto the Treasurer of

the State of Maine in the sum of_____,for payment which Principal and Surety bind

themselves, their heirs, executers, administrators, successors and assigns, jointly and severally.

The condition of this obligation is that the Principal has submitted to the Maine Department of Transportation, hereafter Department, a certain bid, attached hereto and incorporated as a part herein, to enter into a written contract for the construction of _____

_____

_____and if the Department shall accept said bid and the Principal shall execute and deliver a contract in the form attached hereto (properly completed in accordance with said bid) and shall furnish bonds for this faithful performance of said contract, and for the payment of all persons performing labor or furnishing material in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be null and void; otherwise it shall remain in full force, and effect.

Signed and sealed this_____day of _____20_____

WITNESS:

_____

_____

_____

PRINCIPAL:

By_____

By:_____

By:_____

WITNESS

_____

_____

_____

SURETY:

By_____

By:_____

Name of Local Agency: _____

NOTICE

Bidders:

Please use the attached “Request for Information” form when faxing questions and comments concerning specific Contracts that have been Advertised for Bid. Include additional numbered pages as required.

State of Maine
Department of Transportation

REQUEST FOR INFORMATION

Date _____ Time _____

Information Requested: **PIN: _____ Town(s): _____**

Request by: _____ Phone: (_____)_____
Bid Date: _____ Fax: (_____)_____

Complete top portion of form and transmit to the number listed in the Notice to Contractors

RFI No: _____ RFI received: _____

Response:_____

Response By:_____ Date: _____

INSTRUCTIONS FOR PREPARING THE CONTRACTOR'S DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION PLAN

The Contractor Shall:

1. Submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan to the Contract's Engineer by 4:30 P.M. on the Bid day.

2. Extend equal opportunity to MDOT certified DBE firms (as listed in MDOT's DBE Directory of Certified Businesses) in the selection and utilization of Subcontractors and Suppliers.

SPECIFIC INSTRUCTIONS FOR COMPLETING THE FORM:

Insert Contractor name, the name of the person(s) preparing the form, and that person(s) telephone and fax number.

Provide total Bid price, Federal Project Identification Number, and location of the Project work.

In the columns, name each DBE firm to be used, provide the Unit or Item cost of the Work/Product to be provided by the DBE firm, give a brief description of the Work, and the dollar value of the Work.

If no DBE firm is to be utilized, the Contractor must document the reason(s) why no DBE firms are being used. Specific supporting evidence of good faith efforts taken by Contractors to solicit DBE Bidders must be attached. This evidence, as a minimum, includes phone logs, e-mail and/or mail DBE solicitation records, and the documented results of these solicitations.

NOTICE

Disadvantaged Business Enterprise Proposed Utilization

The Apparent Low Bidder must submit the Disadvantaged Business Enterprise Proposed Utilization form by close of Business (4:30 P.M.) on Bid day.

The Contractor's Disadvantaged Business Enterprise Proposed Utilization Plan form contains additional information that is required by USDOT.

The Contractor's Disadvantaged Business Enterprise Proposed Utilization Plan form must be used.

A copy of the new Contractor's Disadvantaged Business Enterprise Proposed Utilization Plan and instructions for completing it are attached.

Note: Questions about DBE firms, or to obtain a printed copy of the DBE Directory, contact Equal Opportunity at (207) 624-3066.

MDOTs DBE Directory of Certified firms can also be obtained at http://www.state.me.us/mdot/humnres/o_equalo/cdwbed_h.htm

CONTRACTOR'S DISADVANTAGED BUSINESS ENTERPRISE PROPOSED UTILIZATION PLAN

Low Bidder shall furnish completed form to Contracts Section by 4:30 P.M. on Bid Opening day.

TO: MDOT Contracts Section
16 State House Station,
Augusta, Me 04333-0016
or
Fax: 207-624-3431

Contractor: _____
Prepared by: _____

Telephone: _____ Fax: _____

BID PRICE: $_____FEDERAL PROJECT #_____LOCATION: _____

TOTAL DBE PARTICIPATION AS A PERCENT OF TOTAL BID PRICE = _____%

DBE Firm*	Unit/Item Cost	Unit #	Description of work & Item Number	Actual $ Value
			Total >	

If no DBE firm(s) are used, bidder must document efforts made to secure DBE participation and attach supporting evidence of this effort:

_____

_____.

Examples: Bidder relies wholly upon low quote subcontractor section, DBE firm(s) were not low quote. No DBE firms bid.

***Only DBE firms certified by MDOT prior to bidding can be utilized by Contractor for DBE credit. Directory of certified DBEs is available on MDOT's website: www.state.me.us/mdot**

Equal Opportunity Use:

Plan received ___/___/___ Verified by: _____ Action: _____

Office of Human Resources

Equal Opportunity

MAINE DEPARTMENT OF TRANSPORTATION

Certified Disadvantaged and Women Business Enterprise

DBE DIRECTORY - MINORITY OWNED

WBE DIRECTORY - WOMEN OWNED

WEBSITE FOR DIRECTORY CAN BE FOUND AT:
http://www.state.me.us/mdot/humnres/o_equalo/cdwbed_h.htm

It is the responsibility of the Contractor to access the DBE Directory at this site in order to have the most current listings.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
NOTICE TO CONTRACTORS

Sealed Bids addressed to the Maine Department of Transportation, Augusta, Maine 04333 and endorsed on the wrapper "Bid for the **Hot Mix Asphalt Overlay, Plant Mixed Recycled Asphalt Pavement, Variable Depth Gravel Areas, Full Construction Areas, Drainage and Safety Improvements** in the towns of **Paris and Buckfield**" will be received from contractors at the Reception Desk, Maine DOT Building, Child Street, Augusta, Maine, until 11:00 o'clock A.M. (prevailing time) on **July 21, 2004**, and at that time and place publicly opened and read. Bids will be accepted from contractors prequalified by the Department of Transportation for highway construction or paving projects. All other Bids may be rejected. **MDOT provides the option of electronic bidding. We accept electronic bids for those bid packages posted on the bidx.com website. Electronic bids do not have to be accompanied by paper bids. Please note: the Department will accept a facsimile of the bid bond; however, the original bid bond must then be received at the MDOT Contract Section within 72 hours of the bid opening. Until further notice, dual bids (one paper, one electronic) will be accepted, with the paper copy taking precedence.**

Description: Maine Federal Aid Project No. STP-1021(600)X, PIN 10216.00

Location: In Oxford County, project STP-1021(600)X is located on Route 117, beginning 0.18 km (0.11 mi) easterly of route 119 in Paris and extending easterly 15.26 km (9.48 mi) to route 140 in Buckfield.

Outline of Work: Hot Mix Asphalt Overlay, Plant Mixed Recycled Asphalt Pavement, Variable Depth Gravel Areas, Full Construction Areas, and Drainage and Safety Improvements and other incidental work.

The basis of award will be the total of all sections.

For general information regarding Bidding and Contracting procedures, contact Scott Bickford at (207)624-3410. Our webpage at http://www.state.me.us/mdot/project/design/homepg.htm contains a copy of the schedule of items, Plan Holders List, written portions of bid amendments (not drawings), and bid results. For Project-specific information fax all questions to **James Andrews** at (207)624-3401. Questions received after 12:00 noon of Monday prior to bid date will not be answered. Bidders shall not contact any other Departmental staff for clarification of Contract provisions, and the Department will not be responsible for any interpretations so obtained. Hearing impaired persons may call the Telecommunication Device for the Deaf at (207) 624-3007.

Plans, specifications and bid forms may be seen at the Maine DOT Building in Augusta, Maine. They may be purchased from the Department between the hours of 8:00 a.m. to 4:30 p.m. by cash, credit card (Visa/Mastercard) or check payable to Treasurer, State of Maine sent to Maine Department of Transportation, Attn.: Mailroom, 16 State House Station, Augusta, Maine 04333-0016. They also may be purchased by telephone at (207)624-3536 between the hours of 8:00 a.m. to 4:30 p.m. Full size plans $104.00 ($111.00 by mail). Half size plans $52.00 ($55.75 by mail). Bid Book $10 ($13 by mail), Single Sheets $2, payment in advance, all non-refundable.

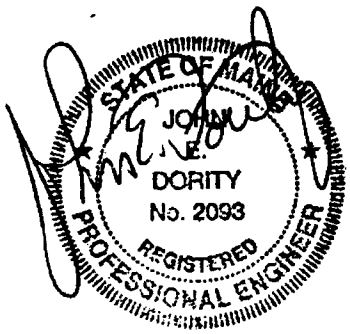
Each Bid must be made upon blank forms provided by the Department and must be accompanied by a bid bond at 5% of the bid amount or an official bank check, cashier's check, certified check, certificate of deposit, or United States postal money order in the amount of $160,000 payable to Treasurer, State of Maine as a Bid guarantee. A Contract Performance Surety Bond and a Contract Payment Surety Bond, each in the amount of 100 percent of the Contract price, will be required of the successful Bidder.

This Contract is subject to all applicable Federal Laws. This contract is subject to compliance with the Disadvantaged Business Enterprise program requirements as set forth by the Maine Department of Transportation.

All work shall be governed by "State of Maine, Department of Transportation, Standard Specifications, Revision of December 2002", price $10 [$13 by mail], and Standard Details, Revision of December 2002, price $20 [$25 by mail] Standard Detail updates can be found at http://www.state.me.us/mdot/project/design/homepg.htm

The right is hereby reserved to the MDOT to reject any or all Bids.

Augusta, Maine
June 30, 2004



JOHN E. DORITY
CHIEF ENGINEER

STP-1021(600)X
Paris-Buckfield
March 17, 2004
Supercedes October 29, 2003

SPECIAL PROVISION 102.7.3
ACKNOWLEDGMENT OF BID AMENDMENTS
&
SUBMISSION OF BID BOND VALIDATION NUMBER (IF APPLICABLE)

With this form, the Bidder acknowledges its responsibility to check for all Amendments to the Bid Package. For each Project under Advertisement, Amendments are located at http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php It is the responsibility of the Bidder to determine if there are Amendments to the Project, to download them, to incorporate them into their Bid Package, and to reference the Amendment number and the date on the form below. The Maine DOT will not post Bid Amendments any later than noon the day before Bid opening without individually notifying all the planholders.

Amendment Number	Date

The Contractor, for itself, its successors and assigns, hereby acknowledges that it has received all of the above referenced Amendments to the Bid Package.

CONTRACTOR

_____ _____
Date Signature of authorized representative

_____
(Name and Title Printed)

MAINE DEPARTMENT OF TRANSPORTATION

BID

DATE OF OPENING : CALL ORDER :

CONTRACT ID : 010216.00

PROJECTS

STP-1021(600)X

COUNTY : OXFORD

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SECTION 0001 HIGHWAY ITEMS					
0010	201.23 REMOVING SINGLE TREE TOP ONLY	8.000 EA				
0020	201.24 REMOVING STUMP	8.000 EA				
0030	202.203 PAVEMENT BUTT JOINTS	225.000 M2				
0040	203.20 COMMON EXCAVATION	43637.000 M3				
0050	203.21 ROCK EXCAVATION	2150.000 M3				
0060	205.51 WIDENING OF EXISTING SHOULDER	5544.000 M2				
0070	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	50.000 M3				
0080	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	50.000 M3				
0090	211.20 INSLOPE EXCAVATION	7280.000 M				
0100	211.30 DITCH EXCAVATION	5718.000 M				

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0110	211.40 NEW DITCH EXCAVATION	5202.000 M				
0120	304.104 AGGREGATE SUBBASE COURSE - GRAVEL (PLAN QUANTITY)	42342.000 M3				
0130	310.24 PLANT MIX RECYCLED ASPHALT PAVEMENT - 100 MM DEPTH	133605.000 M2				
0140	403.209 HOT MIX ASPHALT 9.5 MM(SIDEWALKS,DRIVES, INCIDENTAL)	565.000 MG				
0150	403.210 HOT MIX ASPHALT 9.5 MM NOMINAL MAX SIZE	9910.000 MG				
0160	403.213 HOT MIX ASPHALT 12.5 MM, BASE	14870.000 MG				
0170	409.15 BITUMINOUS TACK COAT APPLIED	22000.000 L				
0180	411.10 UNTREATED AGGREGATE SURFACE COURSE (TRUCK MEASURE)	400.000 M3				
0190	534.71 PRECAST CONCRETE BOX CULVERT	LUMP	LUMP			
0200	601.22 GABIONS, PVC COATED	20.000 M3				
0210	603.16 375 MM CULVERT PIPE OPTION I	544.000 M				

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0220	603.169 375 MM CULVERT PIPE OPTION III	50.000 M				
0230	603.17 450 MM CULVERT PIPE OPTION I	202.000 M				
0240	603.179 450 MM CULVERT PIPE OPTION III	610.000 M				
0250	603.199 600 MM CULVERT PIPE OPTION III	300.000 M				
0260	603.205 750 MM REINFORCED CONCRETE PIPE CLASS III	95.000 M				
0270	603.215 900 MM REINFORCED CONCRETE PIPE CLASS III	134.300 M				
0280	603.219 900 MM CULVERT PIPE OPTION III	11.600 M				
0290	603.235 1200 MM REINFORCED CONCRETE PIPE CLASS III	61.000 M				
0300	603.239 1200 MM CULVERT PIPE OPTION III	13.800 M				
0310	604.092 CATCH BASIN TYPE B1-C	13.000 EA				
0320	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	1.000 EA				

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0330	604.182 CLEAN EXISTING CATCH BASIN AND MANHOLE	1.000 EA				
0340	604.245 CATCH BASIN TYPE F4-C	2.000 EA				
0350	605.09 150 MM UNDERDRAIN TYPE B	591.000 M				
0360	605.101 100MM UNDERDRAIN OUTLET	12.000 M				
0370	605.11 300 MM UNDERDRAIN TYPE C	300.000 M				
0380	605.12 375 MM UNDERDRAIN TYPE C	159.000 M				
0390	605.13 450 MM UNDERDRAIN TYPE C	115.000 M				
0400	606.178 GUARDRAIL BEAM	38.000 M				
0410	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	1017.000 M				
0420	606.232 GUARDRAIL TYPE 3C - OVER 4.5 M RADIUS	69.000 M				
0430	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	9.000 EA				

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0440	606.35 GUARDRAIL DELINEATOR POST	90.000 EA				
0450	606.47 SINGLE WOOD POST	20.000 EA				
0460	606.51 MULTIPLE MAILBOX SUPPORT	2.000 EA				
0470	606.754 WIDEN SHOULDER FOR 350 END TREATMENT	12.000 EA				
0480	606.79 GUARDRAIL 350 FLARED TERMINAL	12.000 EA				
0490	609.237 TERMINAL CURB TYPE 1 - 2.1 METER	2.000 EA				
0500	609.31 CURB TYPE 3	1335.000 M				
0510	610.08 PLAIN RIPRAP	800.000 M3				
0520	610.18 STONE DITCH PROTECTION	1770.000 M3				
0530	613.319 EROSION CONTROL BLANKET	18000.000 M2				
0540	615.07 LOAM	300.000 M3				

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0550	617.381 EROSION CONTROL MIX	100.000 M3				
0560	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	1185.000 UN				
0570	619.1201 MULCH - PLAN QUANTITY	1185.000 UN				
0580	620.58 EROSION CONTROL GEOTEXTILE	7500.000 M2				
0590	621.037 EVERGREEN TREES (1500 MM - 1800 MM) GROUP A	5.000 EA				
0600	621.262 LARGE DECIDUOUS TREES (3000 MM - 3600 MM) GROUP B	5.000 EA				
0610	621.54 DECIDUOUS SHRUBS (450 MM - 600 MM) GROUP A	5.000 EA				
0620	627.75 WHITE OR YELLOW PAVEMENT AND CURB MARKING	25.000 M2				
0630	627.76 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LUMP	LUMP			
0640	629.05 HAND LABOR, STRAIGHT TIME	40.000 HR				
0650	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	20.000 HR				

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0660	631.11 AIR TOOL (INCLUDING OPERATOR)	20.000 HR				
0670	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	100.000 HR				
0680	631.122 MINI ALL-PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20.000 HR				
0690	631.14 GRADER (INCLUDING OPERATOR)	20.000 HR				
0700	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	200.000 HR				
0710	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR)	20.000 HR				
0720	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	20.000 HR				
0730	639.19 FIELD OFFICE TYPE B	1.000 EA				
0740	652.33 DRUM	150.000 EA				
0750	652.34 CONE	200.000 EA				
0760	652.35 CONSTRUCTION SIGNS	135.000 M2				

CONTRACT ID: 010216.00 PROJECT(S): STP-1021(600)X

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0770	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	280.000 CD				
0780	652.38 FLAGGER	20500.000 HR				
0790	653.20 25 MM POLYSTYRENE PLASTIC INSULATION	350.000 M2				
0800	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0810	659.10 MOBILIZATION	LUMP	LUMP			
0820	660.21 ON-THE-JOB TRAINING (BID)	2000.000 HR				
	SECTION 0001 TOTAL				.	

SECTION 0002 UTILITY ITEMS

0830	812.162 ADJUST SEWER MANHOLE TO GRADE	5.000 EA				
0840	812.164 REBUILDING SEWER MANHOLE	1.000 EA				
0850	823.332 GATE VALVE BOX, ADJUST TO GRADE	4.000 EA				
	SECTION 0002 TOTAL					
	TOTAL BID					

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____

a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at _____

_____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, **STP-1021(600)X, PIN 10216.00, for the Hot Mix Asphalt Overlay, Plant Mix Recycled Asphalt Pavement, Variable Depth Gravel Areas, Full Construction Areas, Drainage and Safety Improvements in the towns of Paris and Buckfield, County of Oxford, Maine.** The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 19, 2005.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 0001 $_____

Section 0002 $_____

Performance Bond and Payment Bond each being 100% of the amount awarded under this Contract (see award amount in Section G below).

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.

2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.

3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advetisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **STP-1021(600)X, PIN 10216.00, for the Hot Mix Asphalt Overlay, Plant Mix Recycled Asphalt Pavement, Variable Depth Gravel Areas, Full Construction Areas, Drainage and Safety Improvements in the towns of Paris and Buckfield, County of Oxford, State of Maine**, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work on the date specified in the Engineer's "Notice to Commence Work" as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

_____	_____
Date	(Signature of Legally Authorized Representative of the Contractor)
_____	_____
Witness	(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 0001 ❑
Section 0002 ❑

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

_____	_____
Date	By: David A. Cole, Commissioner
_____	
Witness	

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____

a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at _____

_____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, **STP-1021(600)X, PIN 10216.00, for the Hot Mix Asphalt Overlay, Plant Mix Recycled Asphalt Pavement, Variable Depth Gravel Areas, Full Construction Areas, Drainage and Safety Improvements in the towns of Paris and Buckfield, County of Oxford, Maine.** The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 19, 2005.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is

Section 0001 $_____

Section 0002 $_____

Performance Bond and Payment Bond each being 100% of the amount awarded under this Contract (see award amount in Section G below).

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.

2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.

3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advetisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: **STP-1021(600)X, PIN 10216.00, for the Hot Mix Asphalt Overlay, Plant Mix Recycled Asphalt Pavement, Variable Depth Gravel Areas, Full Construction Areas, Drainage and Safety Improvements in the towns of Paris and Buckfield, County of Oxford, State of Maine**, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work on the date specified in the Engineer's "Notice to Commence Work" as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

_____	_____
Date	(Signature of Legally Authorized Representative of the Contractor)
_____	_____
Witness	(Name and Title Printed)

G. Award.

Your offer is hereby accepted for (see checked boxes):

Section 0001 ❑
Section 0002 ❑

Contract Amount: _____

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

_____	_____
Date	By: David A. Cole, Commissioner
_____	
Witness	

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at 1705 U.S. Route 202, Winthrop, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and **(Name of the firm bidding the job)** a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at **(address of the firm bidding the job)**

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, PIN No. **1224.00**, for the **Hot Mix Asphalt Overlay** in the town/city of **West Eastport**, County of **Washington**, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 15**, 2003**.** Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is **____(Place bid here in alphabetical form such as One Hundred and Two dollars and 10 cents)_____ $_ (repeat bid here in numerical terms, such as $102.10)_____** Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.

2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.

3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of:

PIN 1234.00 West Eastport, Hot Mix Asphalt Overlay,

State of Maine, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work on the date specified in the Engineer's "Notice to Commence Work" as stated in Section 107.2 of the Standard Specifications Revision of 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

_____	**(Sign Here)**
Date	(Signature of Legally Authorized Representative of the Contractor)
____(**Witness Sign Here)** _____	**(Print Name Here)**
Witness	(Name and Title Printed)

G. Award.

Your offer is hereby accepted. This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

_____	_____
Date	By: David A. Cole, Commissioner
_____	
(Witness)	

BOND # _____

CONTRACT PERFORMANCE BOND
(Surety Company Form)

KNOW ALL MEN BY THESE PRESENTS: That _____ _____ **and the State of** _____, as principal, and……..., a corporation duly organized under the laws of the State of ..... and having a usual place of business ...., as Surety, are held and firmly bound unto the Treasurer of the State of Maine in the sum of _____ **and 00/100 Dollars ($)**, to be paid said Treasurer of the State of Maine or his successors in office, for which payment well and truly to be made, Principal and Surety bind themselves, their heirs, executors and administrators, successors and assigns, jointly and severally by these presents.

The condition of this obligation is such that if the Principal designated as Contractor in the Contract to construct Project Number _____ in the Municipality of _____ promptly and faithfully performs the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the State of Maine.

Signed and sealed this ..... day of ....., 20…. .

WITNESSES:	SIGNATURES: CONTRACTOR:
Signature.....	.....….....
Print Name Legibly	Print Name Legibly ...….....
	SURETY:
Signature	....….....
Print Name Legibly	Print Name Legibly .....
SURETY ADDRESS:	NAME OF LOCAL AGENCY:
.....	ADDRESS .....
.....	..….....
.....	.....….....
TELEPHONE.....	.....….....

BOND # _____

CONTRACT PAYMENT BOND
(Surety Company Form)

KNOW ALL MEN BY THESE PRESENTS: That _____ _____ **and the State of** _____, as principal, and.....…..... a corporation duly organized under the laws of the State of ..... and having a usual place of business in .....……., as Surety, are held and firmly bound unto the Treasurer of the State of Maine for the use and benefit of claimants as herein below defined, in the sum of _____ **and 00/100 Dollars ($)** for the payment whereof Principal and Surety bind themselves, their heirs, executors and administrators, successors and assigns, jointly and severally by these presents.

The condition of this obligation is such that if the Principal designated as Contractor in the Contract to construct Project Number _____ in the Municipality of _____ promptly satisfies all claims and demands incurred for all labor and material, used or required by him in connection with the work contemplated by said Contract, and fully reimburses the obligee for all outlay and expense which the obligee may incur in making good any default of said Principal, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

A claimant is defined as one having a direct contract with the Principal or with a Subcontractor of the Principal for labor, material or both, used or reasonably required for use in the performance of the contract.

Signed and sealed this ..... day of ...……....., 20 ... .

WITNESS:	SIGNATURES:
	CONTRACTOR:
Signature…….....	.....….....
Print Name Legibly .....…….	Print Name Legibly …....
	SURETY:
Signature.....	...….....
Print Name Legibly	Print Name Legibly …....
SURETY ADDRESS:	NAME OF LOCAL AGENCY:
...….....	ADDRESS ….....
.....	……....
TELEPHONE	……....

January 26, 1999

SPECIAL PROVISION
PARTNERING

The successful bidder will have the opportunity to enter into a cooperative partnership agreement with the State Department of Transportation for the contract. The objective of this agreement is the effective completion of the work on time and to the standard of quality that will be a source of pride to both the State and the Contractor. The partnering agreement will not affect the terms of the contract. It is intended only to establish an environment of cooperation between the parties. If the partnering agreement is accepted.

1. Contractor shall select and provide a third-party facilitator to conduct the team building workshop for the Contractor and Department personnel. Facilitator selection shall require Department concurrence. The cost for the facilitator and his associated expenses will be shared equally by the Department on the next monthly estimate, following receipt of invoice(s) from the Contractor, on an extra work basis.

2. Contractor and Department will exchange lists of the key personnel to be participants in the workshop. The list will contain the name and job title of each person, a contact phone number, and the address for job related correspondence.

3. The Contractor shall select the location and make all arrangements for space as required by facilitator, and for any meals required. This cost to be shared equally.

4. A working arrangement for the partnership will be agreed upon in writing at the workshop. The arrangement will set out the mutually recognized goals and expectation of the parties.

5. The Contractor and the Department agree to make an effort to maintain identified key personnel assigned to the work for its duration. A timely notice by each shall be given if changes by either must be made.

6. Project issues shall be processed in the manner agreed upon by the parties during the orientation.

7. Follow-up workshops may be held periodically throughout the duration of the contract as agreed by the Contractor and the Department.

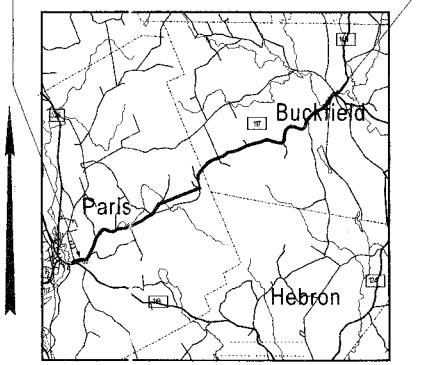
8. The Partnering Agreement is not intended to be a legal document. Failure by either party to follow the process identified will not be grounds for any claim under the contract.

9. ARE YOU INTERESTED IN THIS OPPORTUNITY? YES _____ NO _____

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1021(600)X

BEGIN PROJECT STA 0+196
END PROJECT STA 15+460



LOCATION MAP

2 0 2 4
Scale in Kilometers

INDEX OF SHEETS

PARIS - BUCKFIELD

OXFORD COUNTY

State Rte. 117

PROJECT NO. STP-1021(600)X

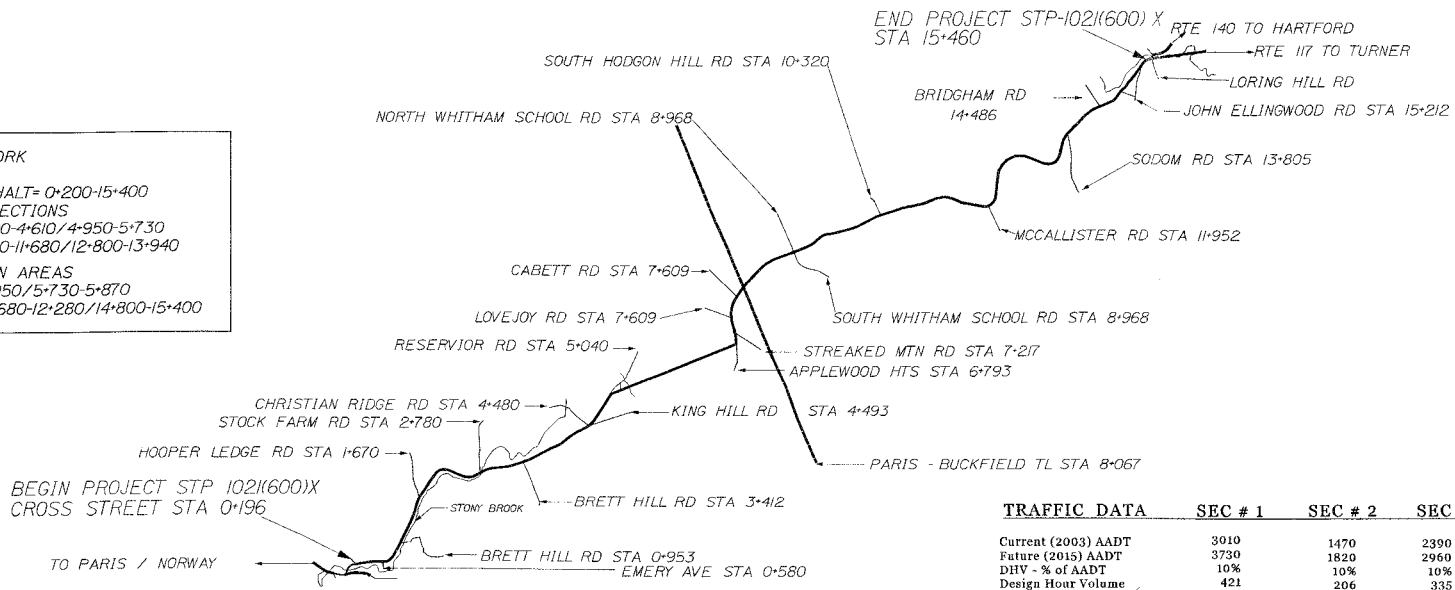
PROJECT LENGTH : 15.26 km

CHIP

SCOPE OF WORK

PLANT MIX RECYCLED ASPHALT= 0+200-15+400
VARIABLE GRAVEL SECTIONS
0+580-0+680/2+540-3+720/3+790-4+610/4+950-5+730
5+870-10+000/10+140-10+220/10+290-11+680/12+800-13+940

FULL CONSTRUCTION AREAS
3+730-3+790/4+610-4+950/5+730-5+870
10+000-10+140/10+220-10+290/11+680-12+280/14+800-15+400



TRAFFIC DATA	SEC # 1	SEC # 2	SEC # 3
Current (2003) AADT	3010	1470	2390
Future (2015) AADT	3730	1820	2960
DHV - % of AADT	10%	10%	10%
Design Hour Volume	421	206	335
% Heavy Trucks (AADT)	10%	20%	12.6%
% Heavy Trucks (DHV)	8%	16%	10%
Directional Distribution (DHV)	55%	55%	55%
80 kN Equivalent P 2.0	153	143	147
80 kN Equivalent P 2.5	152	142	146
Design Speed (km/h)	AS POSTED	AS POSTED	AS POSTED

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: [signature] DATE: 3/15/04
CHIEF ENGINEER: [signature] DATE: 03/09/04

PROJECT INFORMATION

PROGRAM	REGIONAL	
PROJECT MANAGER	RICHARD CRAWFORD	
DESIGNER	DALE CARLTON	
CONSULTANT	DALE CARLTON	P.E. NUMBER 9241
PROJECT RESIDENT		
CONTRACTOR		DATE 3/5/04
PROJECT COMPLETION DATE		

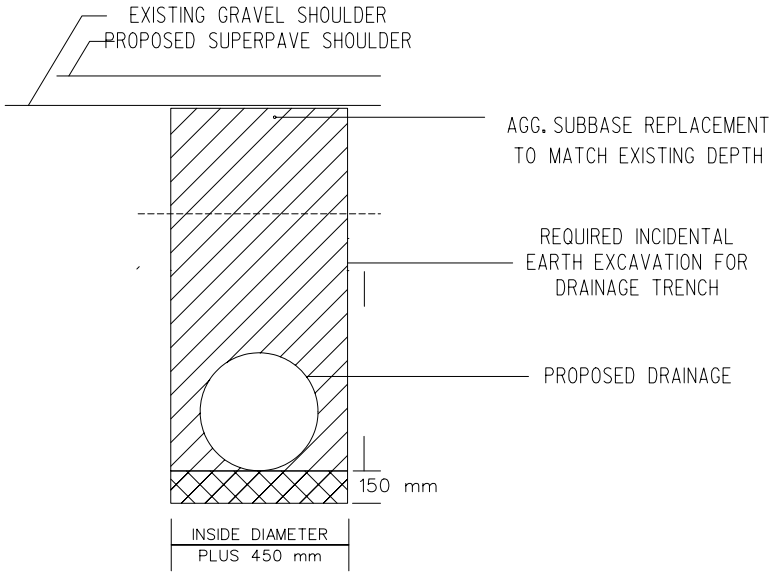
STP-1021(600)X

PARIS - BUCKFIELD
State Rte. 117

TITLE SHEET

SHEET NUMBER
1
OF 104

METRIC	1. All dimensions are in millimeters unless otherwise noted. 2. All elevations and stations are in meters.	P.I.N.A. FED. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
		1	MAINE	STP-1021(600)X		
				10216.00		



TYPICAL CROSS TRENCH

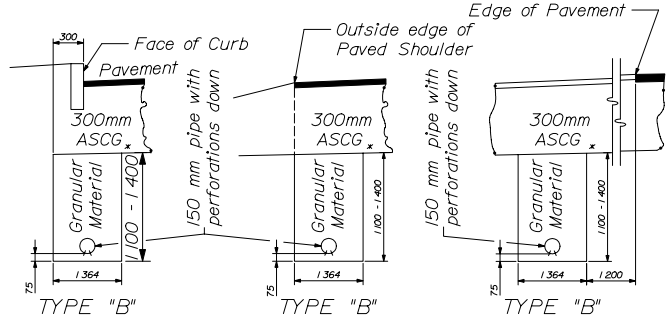
1. PAYMENT FOR ALL EARTH EXCAVATION REQUIRED AND AGGREGATE SUBBASE COURSE GRAVEL SHALL BE INCIDENTAL TO THE PIPE ▨ AREA SHOWN.

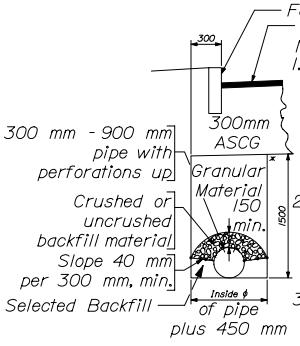
2. PAYMENT FOR ALL EXCAVATION OF ANY SLOPING OF TRENCHES REQUIRED FOR SAFETY REASONS AS WELL AS GRAVEL & HOT BITUMINOUS PAVEMENT MATERIALS REQUIRED SHALL BE CONSIDERED INCIDENTAL TO PIPE ITEM.

3. ROCK EXCAVATION REQUIRED WITHIN THE AREAS SHOWN ▨ & ▨ SHALL BE PAID FOR UNDER ITEM 206.07.

4. DEPTHS OF GRAVEL & PAVEMENT LAYERS IN TRENCH TO BE THE SAME AS EXISTING.

5. ADDITION OF ANY A.S.C.G. OR SUITABLE GRANUALR MATERIAL, NECESSARY TO MAINTAIN TRAFFIC AROUNDDRAINAGE INSTALLATION OPERATIONS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO DRAINAGE ITEM.





Notes:

1. The maximum vertical measurement of depth for payment of Structural Rock Excavation will be to a horizontal plane located 300 mm below the bottom of the invert of the pipe for Underdrain Type "B" and Underdrain Type "C".
2. The material for Elbows, Tees, & Wyes for Underdrain Types "B" and "C" shall be atleast as thick as the largest size pipe being connected.
3. The invert elevation of Underdrain Type "B" outlets shall be a minimum of 150 mm above the flow line of a ditch or the original ground.
4. Width of the trench for underdrain outlet will be the same as the underdrain trench.
5. No allowance for payment will be made for excavating or material excavated beyond the horizontal dimensions shown for Types "B" or "C" Underdrain.
6. In "Box Sections" the edge of the trench shall be in line with the edge of box section.

* Unless otherwise shown on the plans

UNDERDRAIN

605(01)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

PARIS - BUCKFIELD

State Rte. 117

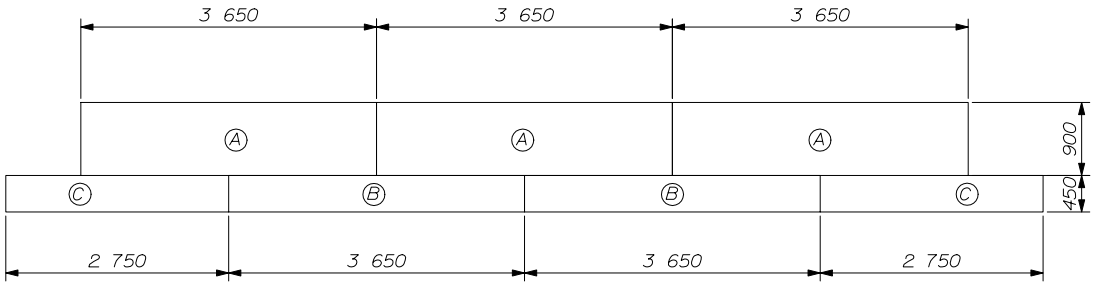
NOT TO SCALE

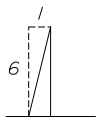
SHEET 1 OF 4

AUGUSTA, MAINE

GABION BASKETS
STATION 2+627.5 - 2+640.3 RIGHT

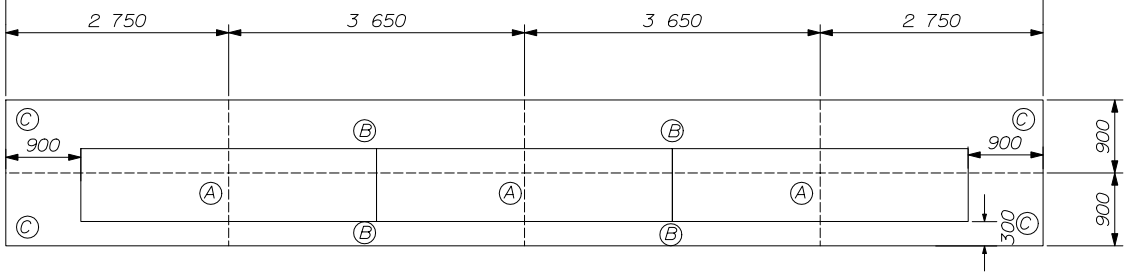
ELEVATION VIEW

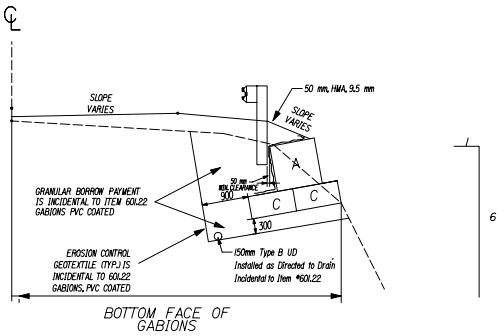




STA 2+627.5 STA 2+640.3

PLAN VIEW





TYPICAL APPROACH SECTION

Ⓐ 3.65 x .9 x .9 (3) 8.87 CUBIC METERS

Ⓑ 3.65 x .45 x .9 (4) 5.91 CUBIC METERS

Ⓒ 2.75 x .45 x .9 (4) 4.46 CUBIC METERS

TOTAL: 19.24 CUBIC METERS

NOTE:

1. ANY AND ALL CUTTING REQUIRED TO FIT BASKETS WILL BE INCIDENTAL.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
PARIS - BUCKFIELD
State Rte. 117

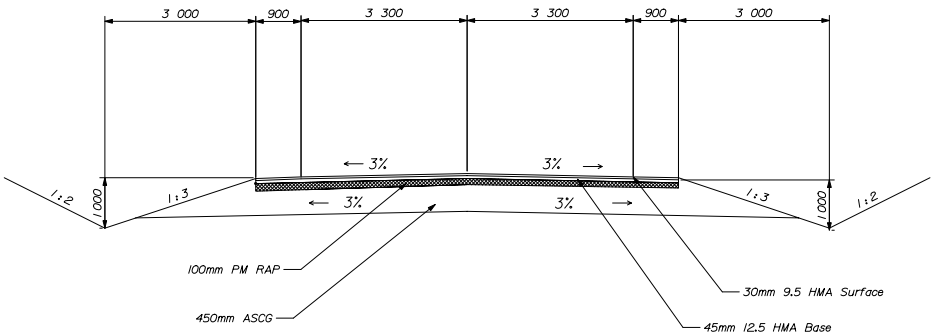
NOT TO SCALE

AUGUSTA, MAINE

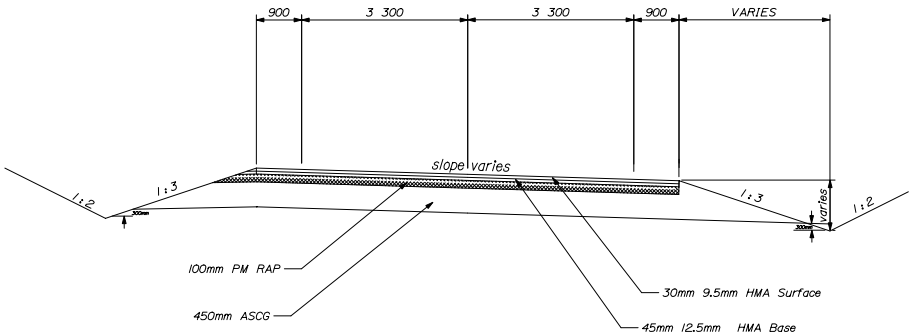
METRIC 1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

F.H.W.A. PROJ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	STP-1021(600)X		

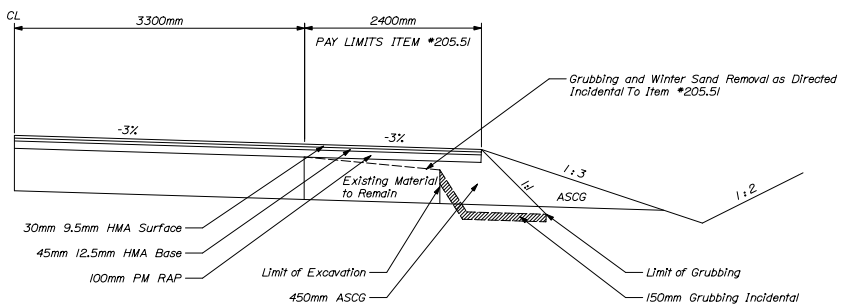
10216.00



NORMAL SECTION
FULL CONSTRUCTION AREA
Sta. 4+610 - 4+950
Sta. 10+000 - 10+140
Sta. 14+800 - 15+400

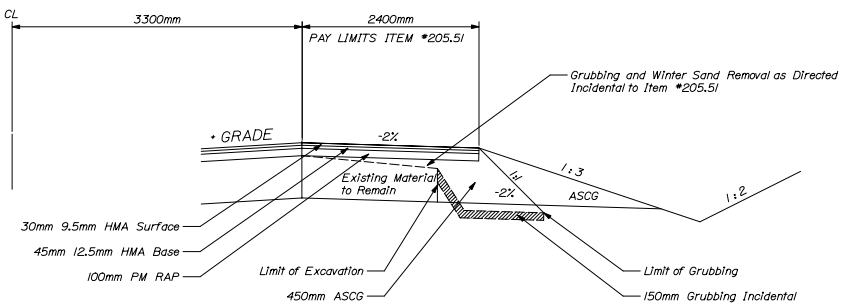


SUPERELEVATED SECTION
FULL CONSTRUCTION AREA
Sta. 3+730 - 3+790
Sta. 5+730 - 5+870
Sta. 10+220 - 10+290
Sta. 11+680 - 12+280



Widening Existing Shoulder
Normal Section
Sta. 6+440 - 7+860 Rt.
Sta. 12+280 - 13+260 Lt.

NOTE: IN WIDEN EXISTING SHOULDER AREAS LISTED IN SLOPE DITCH AND NEW DITCH ITEMS TO MATCH WILL BE INCLUDED IN ITEM *205.51
ALL END STATIONS (EXCEPT 12+280) INCLUDE 60M TAPERS



Widening Existing Shoulder
Super Elevated Section
Sta. 6+440 - 7+860 Rt.
Sta. 12+280 - 13+260 Lt.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

PARIS - BUCKFIELD

State Rte. 117

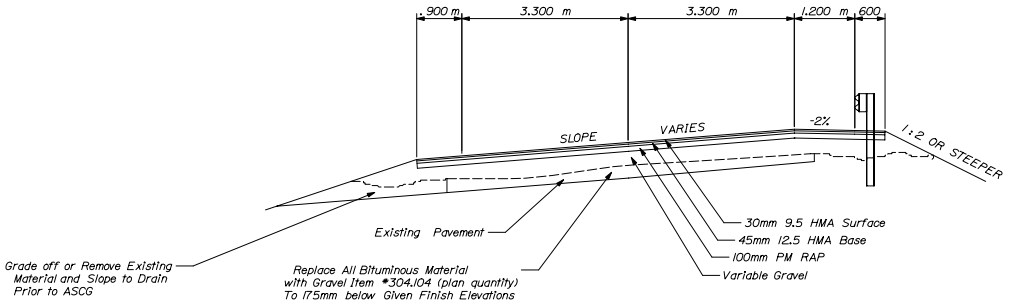
NOT TO SCALE

SHEET 3 OF 4 AUGUSTA, MAINE

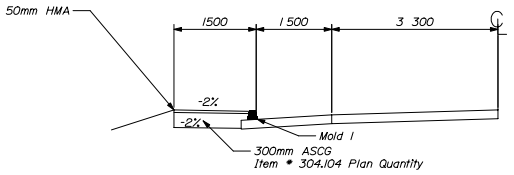
METRIC
1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

REF NO.			NO.	SHEETS
1	MAINE	STP-1021(600)X		

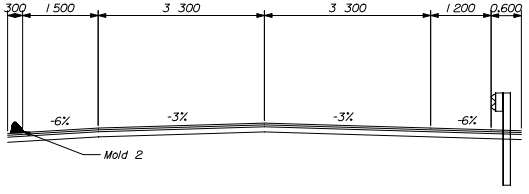
10216.00



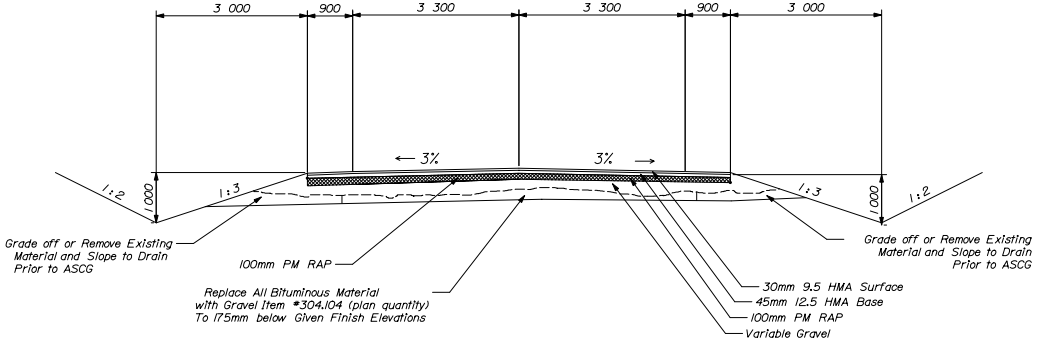
SUPERELEVATED SECTION
VARIABLE and GUARDRAIL SECTION



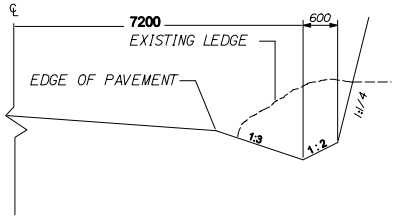
SIDEWALK SECTION
Sta. 14+450-15+422 Lt.



NORMAL SECTION
CURB AND GUARDRAIL



NORMAL SECTION
VARIABLE GRAVEL
(To Elevations and Slopes Given)
in Const. Notes



TYPICAL LEDGE SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

PARIS - BUCKFIELD

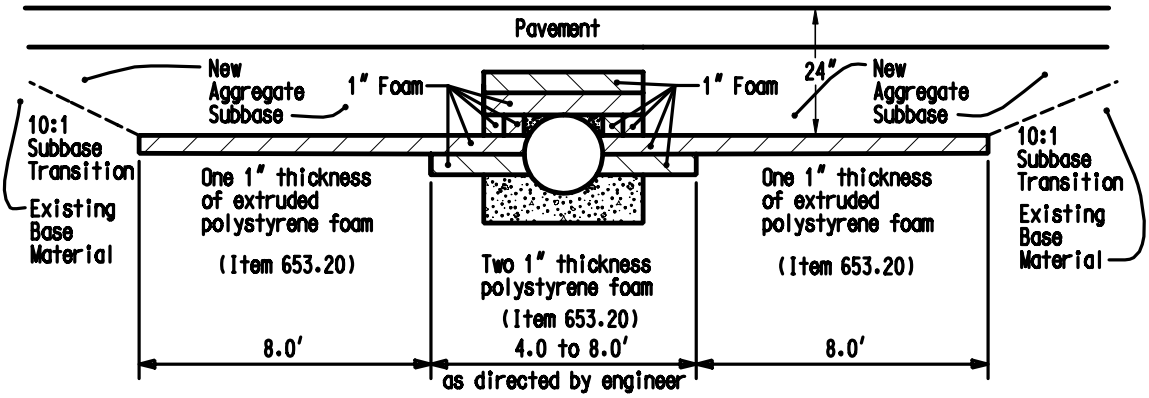
State Rte. 117

NOT TO SCALE

SHEET 4 OF 4

AUGUSTA, MAINE

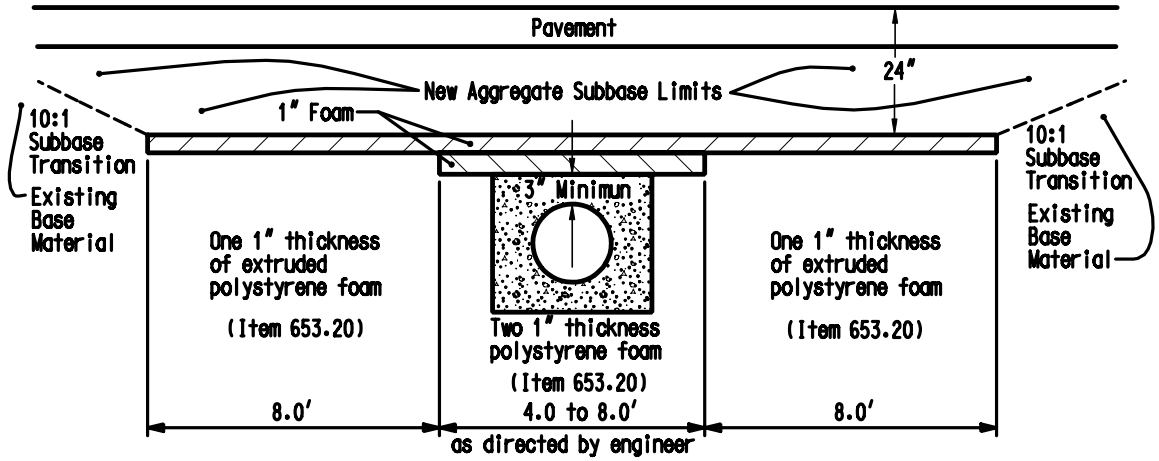
Cross Pipe Low
Shallow Pipe Application



Station 3+865

Not to Scale

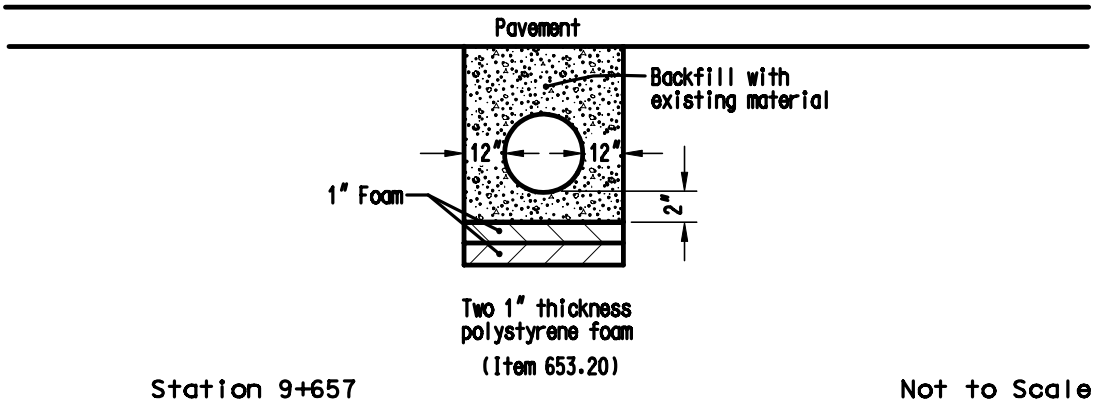
Cross Pipe Low
Deep Pipe Application



Station 9+559

Not to Scale

Cross Pipe High
Shallow Pipe Application



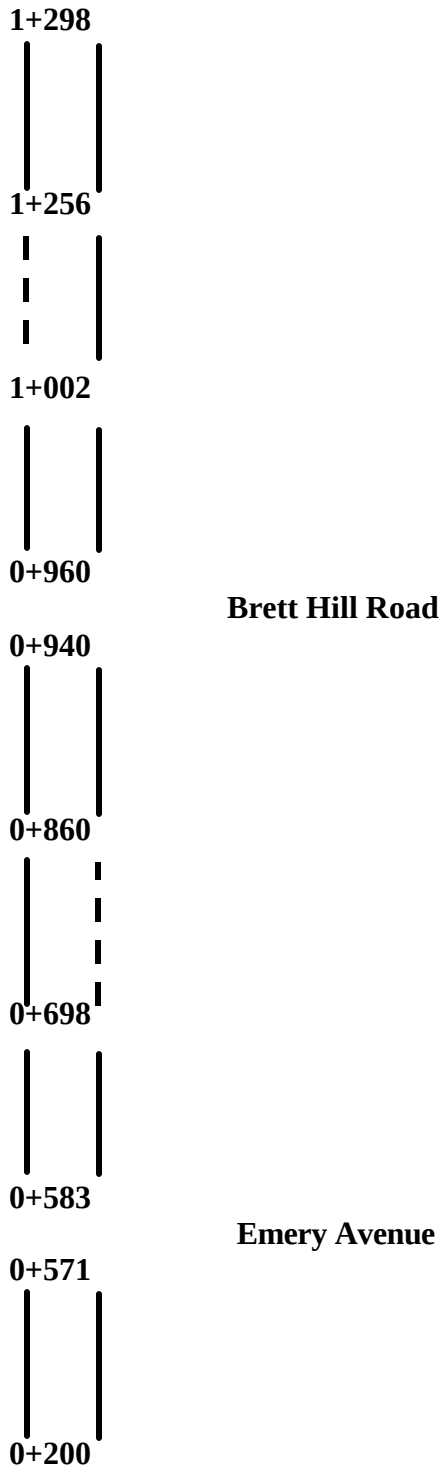
Station 9+657

Not to Scale

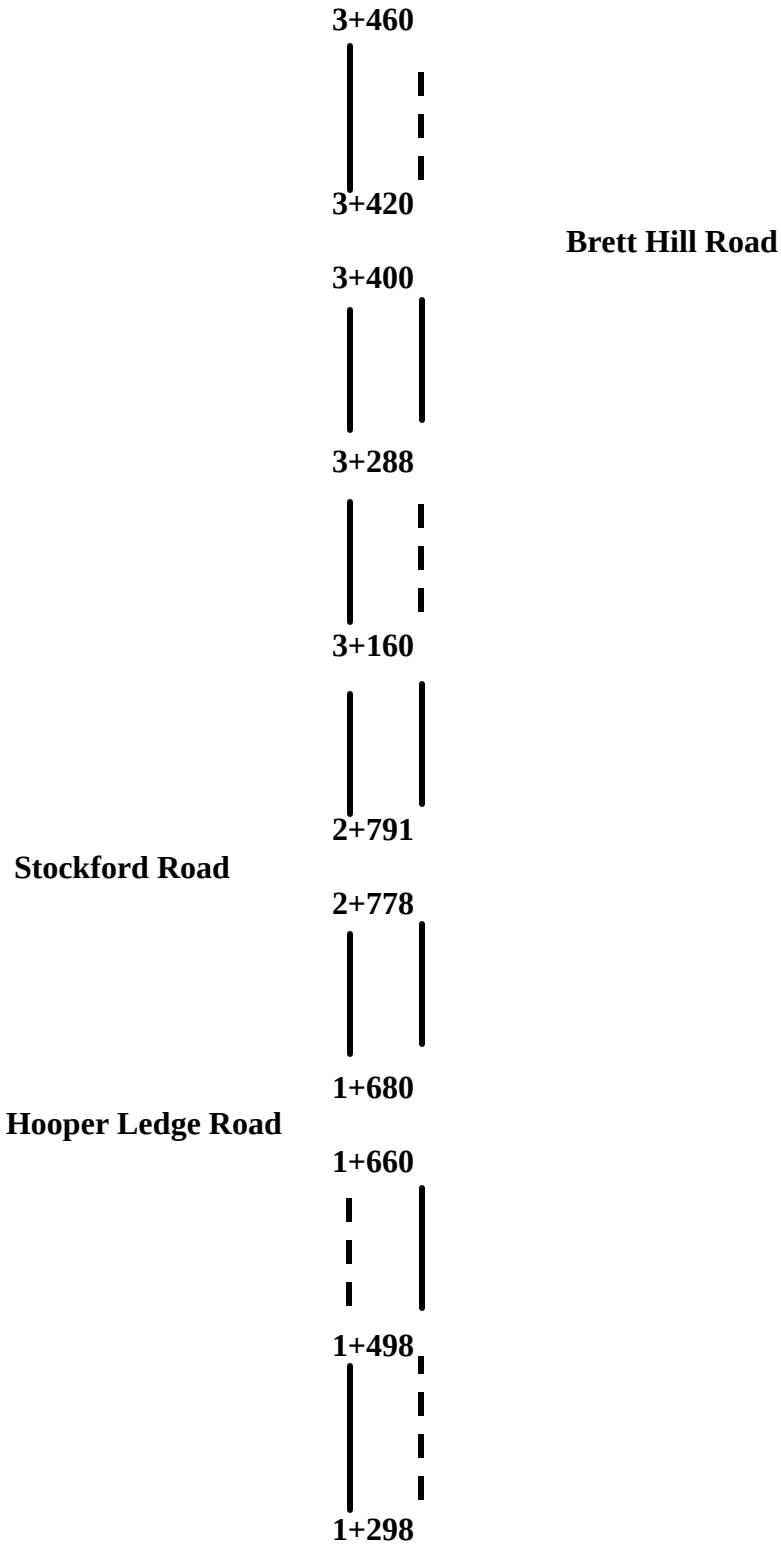
Buckfield-Paris
STP-1021(600)X
Project Stationing

	Begin Project	
	0+192	
	0+206	Cross St.
	0+500	Emery Ave.
	0+953	Brett Hill Rd.
	1+670	
Hooper Ledge Rd.		
	2+780	
Stock Farm Rd.		
	3+412	Brett Hill Rd.
	4+480	
Christian Ridge Rd.		
	4+492	King Hill Rd.
	4+999	
Reservior Rd.		
	5+040	
Reservoir Rd.		
	6+793	Applewood Hts
	7+217	Streaked Mt.
	7+239	
Lovejoy Rd.		
	7+609	
Corbett Rd.		
	8+067	Townline
Buckfield/Paris		
	8+960	S. Whitman School Rd.
N. Whitman School Rd.		
	10+320	
S. Hodgon Hill Rd.		
	13+805	Sodom Rd.
	14+480	
Bridgham Rd.		
	15+212	John Ellingwood Rd.
	15+244	John Ellingwood Rd.
Rte. 140	15+442	End Project

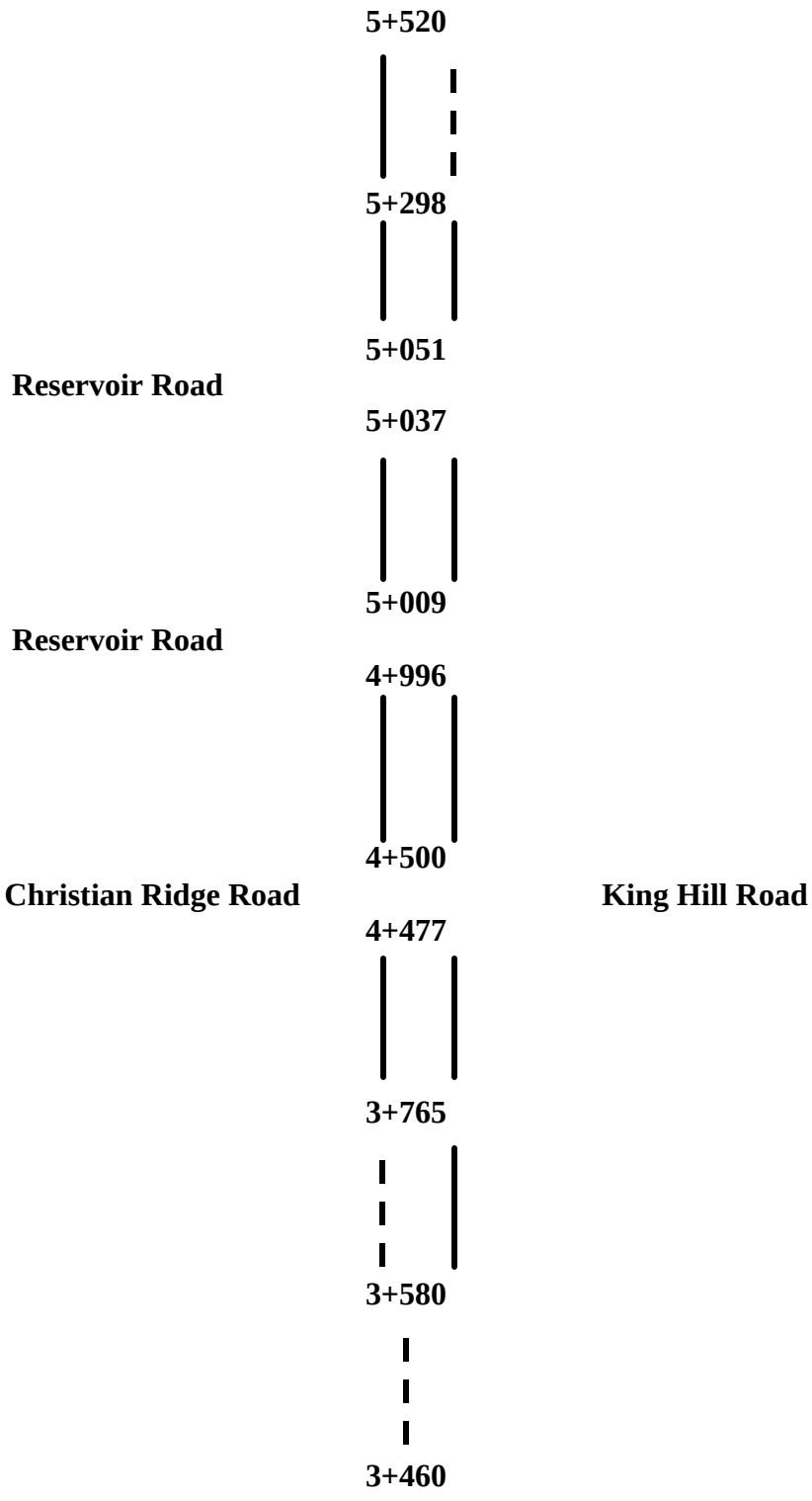
Striping


1+298
1+256
1+002
0+960
Brett Hill Road
0+940
0+860
0+698
0+583
Emery Avenue
0+571
0+200

Striping


3+460
3+420
Brett Hill Road
3+400
3+288
3+160
2+791
Stockford Road
2+778
1+680
Hooper Ledge Road
1+660
1+498
1+298

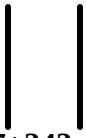
Striping


5+520
5+298
5+051
Reservoir Road
5+037
5+009
Reservoir Road
4+996
4+500
Christian Ridge Road
King Hill Road
4+477
3+765
3+580
3+460

Striping

Corbett Road

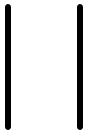
7+600



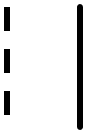
7+242

Lovejoy Road **Streaked Mountain Rd.**

7+205

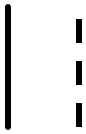


6+500

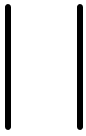


6+292

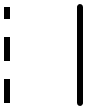
6+140



5+940

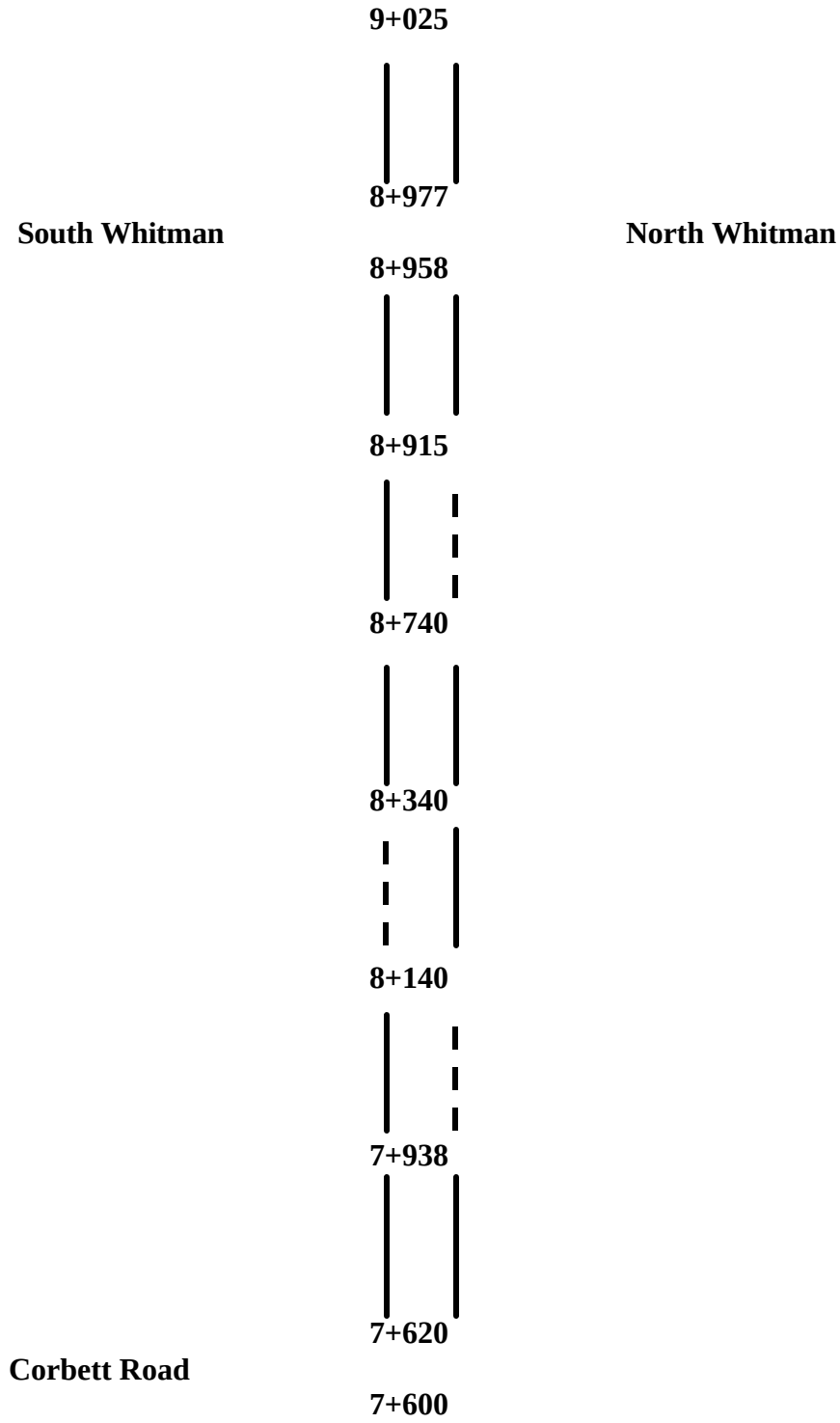


5+700

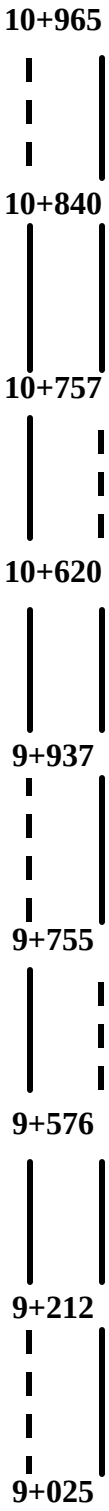


5+520

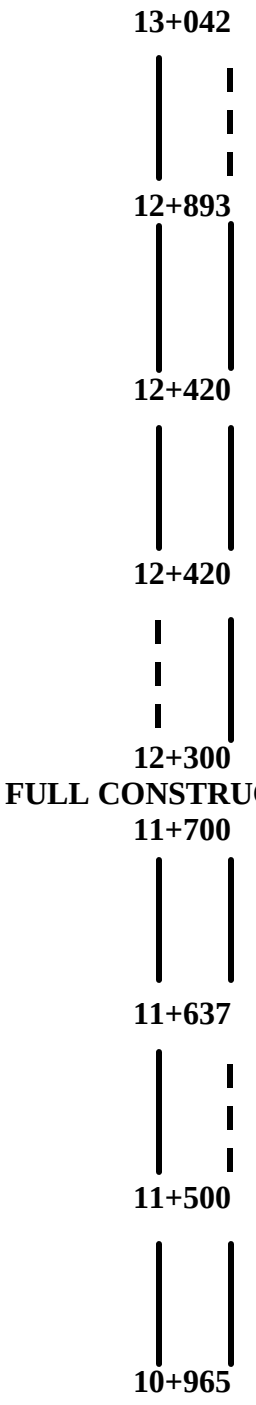
Striping


9+025
8+977
South Whitman
North Whitman
8+958
8+915
8+740
8+340
8+140
7+938
7+620
Corbett Road
7+600

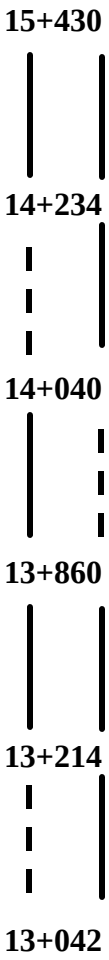
Striping



Striping


13+042
12+893
12+420
12+420
12+300
FULL CONSTRUCTION
11+700
11+637
11+500
10+965

Striping



Superelevations

Curve # 1

PC=0+201.886 **D= 0°- 45′ 30″Rt**
PT=0+393.311

Left	Station	Right
-3.0	0+200	-3.0
-3.0	0+400	-3.0

Curve #2, 3, 4

PC=0+393.591 **D= 2°-27′00″Rt**
PT=0+513.105
PC=0+556.076 **D= 3°29′30″ Lt**
PCC=0+585.279 **D= 11°9′30″ Lt**
PCC=0+652.634 **D= 12°56′10″ Lt**
PCC=0+712.288 **D= 7°45′30″ Lt**
PT=0+741.966
PC=0+752.438 **D= 2°6′15″ Lt**
PT=0+779.993

Left	Station	Right
-3.0	0+420	-3.0
-3.0	0+480	-3.0
-4.0	0+500	-0.5
-5.0	0+520	+2.0
-5.0	0+540	+4.5
-6.0	0+560	+6.0
-6.0	0+700	+6.0
-5.0	0+720	+4.0
-4.0	0+740	+1.5
-3.0	0+760	-1.0
-3.0	0+780	-3.0

Curve # 5, 6, 7, 8, 9, 10

PC=0+795.777	**D=0°26′30″ Rt**
PT=0+832.951	
PC=0+888.500	**D=1°55′00″ Lt**
PT=0+923.597	
PC=0+654.675	**D=0°52′23″ Rt**
PRC=0+964.421	**D=1°49′15″ Lt**
PT=1+060.880	
PC=1+132.102	**D=2°7′7″ Rt**
PT=1+205.188	
PC=1+273.125	**D=2°29′15″ Lt**
PT=1+387.664	
PC=1+478.088	**D=0°10′45″ Lt**
PT=1+530.099	

Left	Station	Right
-3.0	**0+800**	**-3.0**
-3.0	**1+580**	**-3.0**

Curve # 11, 12

PC=1+637.231	**D=5°50′00″ Rt**
PRC=1+730.503	
PT=1+736.535	
PC=1+741.013	**D=0°58′25″ Lt**
PT=1+810.456	

Left	Station	Right
-0.5	**1+600**	**-3.0**
+2.0	**1+620**	**-3.0**
+4.5	**1+640**	**-4.5**
+4.5	**1+700**	**-4.5**
+2.0	**1+720**	**-3.0**
-0.5	**1+740**	**-3.0**
-3.0	**1+760**	**-3.0**

Curve # 13, 14

PC=1+937.278	**D=0°17′5″Rt**
PT=2+015.891	
PC=2+033.876	**D=6°21′00″ Rt**
PCC=2+088.731	**D=8°54′25″ Rt**
PCC=2+260.400	**D=11°38′33″ Rt**
PCC=2+296.216	**D=5°35′15″ Rt**
PRC=2+339.499	
PT=2+345.659	

Left	Station	Right
-3.0	**1+780**	**-3.0**
-3.0	**1+980**	**-3.0**
-0.5	**2+000**	**-3.0**
+2.0	**2+020**	**-4.0**
+4.5	**2+040**	**-5.0**
+6.0	**2+060**	**-6.0**
+6.0	**2+340**	**-6.0**
+4.4	**2+360**	**-5.0**

Curve # 15

PC=2+424.826	**D=1°9′50″ Lt**
PCC=2+467.139	**D=5°15′00″ Lt**

Left	Station	Right
+2.0	**2+380**	**-4.0**
-0.5	**2+400**	**-3.0**
-3.0	**2+420**	**-3.0**
-3.0	**2+440**	**-1.0**
-4.0	**2+460**	**+1.5**
-4.0	**2+480**	**+4.0**

Curve #16, 17, 18

PC=2+607.012	**D=11°3′00″ Lt**
PT=2+708.478	
PC=2+726.263	**D=2°9′15″ Rt**
PCC=2+756.951	**D=4°22′00″ Rt**
PCC=2+793.683	**D=2°27′20″ Rt**
PT=2+904.505	
PC=2+929.734	**D=5°33′10″ Rt**
PT=3+027.217	

Left	Station	Right
-4.0	**2+500**	**+4.0**
-4.0	**2+600**	**+4.0**
-6.0	**2+620**	**+6.0**
-6.0	**2+680**	**+6.0**
-3.5	**2+700**	**+3.5**
-1.0	**2+720**	**+1.0**
+1.5	**2+740**	**-1.5**
+4.0	**2+760**	**-4.0**
+4.0	**3+000**	**-4.0**

Curve # 19

PC=3+089.292	**D=4°7′30″ Lt**
PT=3+311.764	

Left	Station	Right
+4.0	**3+020**	**-4.0**
+2.5	**3+040**	**-4.0**
+1.0	**3+060**	**-1.5**
-1.0	**3+080**	**+1.0**
-3.5	**3+100**	**+3.5**

Curve # 20, 21, 22, 23

PC=3+358.019	**D=1°20′40″ Lt**
PT=3+533.163	
PC=3+587.723	**D=2°56′30″ Lt**
PT=3+603.146	
PC=3+651.216	**D=1°38′40″ Lt**
PT=3+734.661	
PC=3+771.067	**D=2°19′15″ Rt**
PT=3+885.951	

Left	Station	Right
-3.5	**3+120**	**+3.5**
-3.5	**3+200**	**+3.5**
-3.5	**3+220**	**+1.0**
-3.5	**3+240**	**-1.5**
-3.0	**3+260**	**-3.0**
-3.0	**3+300**	**-3.0**
-3.0	**3+320**	**-0.5**
-3.0	**3+340**	**+1.0**
-3.0	**3+360**	**+3.0**
-3.0	**3+720**	**+3.0**
-0.5	**3+740**	**-0.5**
-1.5	**3+760**	**-1.5**
+3.0	**3+780**	**-3.0**
+3.0	**3+880**	**-3.0**

Curve # 24, 25, 26, 27, 28,

PC=3+944.870	**D=5°54′30″ Lt**
PT=4+055.379	
PC=4+104.409	**D=3°12′45″ Rt**
PT=4+255.452	
PC=4+337.009	**D=0°48′45″ Rt**
PT=4+375.855	
PC=4+409.187	**D=2°58′30″ Lt**
PT=4+432.355	
PC=4+454.915	**D=9°11′30″ Lt**
PCC=4+494.041	**D=6°24′55″ Lt**
PT=4+572.302	

Left	**Station**	**Right**
+0.5	**3+900**	**-0.5**
-2.0	**3+920**	**+1.5**
-4.0	**3+940**	**+4.0**
-5.5	**3+960**	**+5.5**
-5.5	**4+040**	**+5.5**
-3.0	**4+060**	**+3.0**
-0.5	**4+080**	**+0.5**
+2.0	**4+100**	**-2.0**
+4.0	**4+120**	**-4.0**
+4.0	**4+240**	**-4.0**
+1.5	**4+260**	**-3.0**
-0.5	**4+280**	**-3.0**
-3.0	**4+300**	**-3.0**
-3.0	**4+360**	**-3.0**
-3.0	**4+380**	**-0.5**
-4.0	**4+400**	**+1.5**
-5.0	**4+420**	**+4.0**
-6.0	**4+440**	**+6.0**
-6.0	**4+560**	**+6.0**

Curve #29, 30

PC=4+657.688 **D=0°20′00″ Rt**
PT=4+760.372
PC=4+804.211 **D=1°34′50″ Lt**
PT=4+900.771

Left	Station	Right
-5.0	4+580	+4.0
-4.0	4+600	+1.5
-3.0	4+620	-0.5
-3.0	4+640	-3.0
-3.0	4+760	-3.0
-3.0	4+780	-1.0
-3.0	4+800	+1.0
-3.0	4+820	+3.0
-3.0	4+880	+3.0
-3.0	4+900	+1.0

Curve # 31

PC=4+967.079 **D=10°42′50″ Rt**
PCC=5+025.562 **D=9°34′15″ Rt**
PT=5+163.633

Left	Station	Right
-1.5	4+920	-1.0
+1.0	4+940	-3.0
+3.5	4+960	-4.5
+6.0	4+980	-6.0
+6.0	5+160	-6.0

Curve # 32, 33

PC=5+223.561 **D=0°9′15″ Lt**
PT=5+244.784
PC=5+321.281 **D=1°20′17″ Rt**
PT=5+508.920

Left	Station	Right
+3.5	5+180	-5.0
+1.0	5+200	-4.0
-1.5	5+220	-3.0
-3.0	5+240	-3.0
-3.0	5+600	-3.0

Curve # 34

PC=5+645.510 **D=1°50′15″ Lt**
PCC=5+681.145 **D=8°34′40″ Lt**
PCC=5+682.526 **D=8°49′15″ Lt**
PCC=5+754.938 **D=7°9′30″ Lt**
PT=5+770.789

Left	Station	Right
-3.0	5+620	-0.5
-3.0	5+640	+2.0
-4.0	5+660	+4.0
-6.0	5+680	+6.0
-6.0	5+760	+6.0

Curve # 35

PC=5+773.560 **D=2°5′46″ Lt**
PRC=5+815.497 **D=0°21′30″ Rt**
PT=5+854.823

Left	Station	Right
-5.0	5+780	+3.3
-4.0	5+800	+1.0
-3.0	5+820	-1.5
-3.0	5+840	-3.0

Curve # 36, 37

PC=5+914.367 **D=2°22′38″ Rt**
PT=6+034.636
PC=6+096.301 **D=0°10′30″ Rt**
PRC=6+143.916 **D=0°1′5″ Lt**
PT=6+273.321

Left	Station	Right
-3.0	5+860	-3.0
-0.5	5+880	-3.5
+2.0	5+900	-3.5
+3.5	5+920	-3.5
+3.5	6+020	-3.5
+2.0	6+040	-3.5
-0.5	6+060	-3.5
-3.0	6+080	-3.0
-3.0	6+280	-3.0

Curve # 38

PC=6+390.001	**D=1˚9′50″ Lt**
PCC=6+458.435	**D=4˚14′30″Lt**
PCC=6+555.860	**D=0˚41′55″ Lt**
PCC=6+605.712	**D=0˚52′20″ Lt**
PCC=6+680.126	**D=4˚54′40″ Lt**
PCC=6+884.853	**D=5˚49′15″ Lt**
PCC=6+915.660	**D=4˚52′10″ Lt**
PCC=7+082.945	**D=0˚20′55″ Lt**
PRC=7+207.569	**D=0˚38′30″ Rt**
PT=7+237.706	

Left	**Station**	**Right**
-3.0	**6+300**	**-3.0**
-3.0	**6+400**	**-3.0**
-3.0	**6+420**	**0.0**
-4.0	**6+440**	**+2.5**
-5.0	**6+460**	**+5.0**
-5.0	**6+540**	**+5.0**
-4.0	**6+560**	**+2.5**
-3.0	**6+580**	**0.0**
-3.0	**6+600**	**-3.0**
-3.0	**6+620**	**-3.0**
-3.0	**6+640**	**-0.5**
-4.0	**6+660**	**+1.5**
-5.5	**6+680**	**+3.5**
-5.5	**6+700**	**+5.5**
-5.5	**7+080**	**+5.5**
-4.0	**7+100**	**+3.5**
-3.0	**7+120**	**+1.5**
-3.0	**7+140**	**-0.5**
-3.0	**7+160**	**-3.0**
-3.0	**7+240**	**-3.0**

Curves # 39, 40

PC=7+353.190	**D=3˚18′40″ Lt**
PT=7+460.835	
PC=7+550.667	**D=4˚43′15″ Rt**
PCC=7+654.493	**D=1˚56′26″ Rt**
PCC=7+672.096	**D=4˚3′46″ Rt**
PCC=7+861.177	**D=1˚56′26″ Rt**
PCC=7+898.051	**D=3˚31′55″ Rt**
PCC=7+969.180	**D=0˚34′56″ Rt**
PRC=8+029.363	**D=0˚3′6″ Lt**
PRC=8+125.114	**D=0˚26′12″ Rt**
PCC=8+197.765	**D=2˚00′15″ Rt**
PCC=8+289.007	**D=0˚59′50″ Rt**
PT=8+384.107	

Left	**Station**	**Right**
-3.0	**7+300**	**-3.0**
-4.0	**7+320**	**-1.0**
-4.0	**7+340**	**+1.5**
-4.0	**7+360**	**+4.0**
-4.0	**7+440**	**+4.0**
-4.0	**7+460**	**+1.5**
-4.0	**7+480**	**-1.0**
-3.0	**7+500**	**-3.0**
-0.5	**7+520**	**-3.5**
+2.0	**7+540**	**-4.0**
+4.5	**7+560**	**-4.5**
+4.5	**7+960**	**-4.5**
+2.0	**7+980**	**-4.0**
-0.5	**8+000**	**-3.5**
-3.0	**8+020**	**-3.0**
-3.0	**8+140**	**-3.0**
-1.0	**8+160**	**-3.0**
+1.0	**8+180**	**-3.0**
+3.0	**8+200**	**-3.0**

Cont. Curves # 39, 40

Left	Station	Right
+3.0	8+200	-3.0
+3.0	8+280	-3.0
+1.0	8+300	-3.0
-1.0	8+320	-3.0
-3.0	8+340	-3.0

Curve # 41

PC=8+460.286	D=1˚44′45″ Rt
PCC=8+533.058	D=3˚19′40″ Rt
PCC=8+726.895	D=1˚00′00″ Rt
PRC=8+768.715	D=0˚49′20″ Lt
PRC=8+800.259	D=0˚21′00″ Rt
PRC=8+879.339	D=0˚7′15″ Lt
PT=8+920.517	

Left	Station	Right
-3.0	8+360	-3.0
-3.0	8+400	-3.0
-0.5	8+420	-3.0
+2.0	8+440	-3.5
+4.0	8+460	-4.0
+4.0	8+680	-4.0
+2.0	8+700	-3.5
-0.5	8+720	-3.0
-3.0	8+740	-3.0
-3.0	9+140	-3.0

Curve # 42

PC=8+997.575 **D=1°16′00″ Lt**
PRC=9+197.262 **D=0°17′30″ Rt**
PRC=9+228.599 **D=4°49′45″ Lt**
PT=9+338.723

Left	Station	Right
-3.5	9+160	-2.0
-4.0	9+180	0.0
-4.5	9+200	+2.5
-5.0	9+220	+5.0
-5.0	9+320	+5.0
-2.0	9+340	+2.5

Curve # 43

PC=9+378.440 **D=7°9′30″ Rt**
PT=9+544.532

Left	Station	Right
+0.5	9+360	0.0
+3.5	9+380	-3.0
+6.0	9+400	-6.0
+6.0	9+520	-6.0
+3.0	9+540	-3.5
0.0	9+560	-1.0

Curve # 44

PC=9+555.507 **D=3˚11′50″ Lt**
PT=9+638.612

Left	Station	Right
-3.0	9+580	+1.5
-4.0	9+600	+4.0
-4.0	9+620	+4.0
-3.5	9+640	+1.5

Curve # 45

PC=9+787.785 **D=0˚7′25″ Lt**
PT=9+813.506

Left	Station	Right
-3.0	9+660	-1.0
-3.0	9+680	-3.0
-3.0	9+800	-3.0
-3.5	9+820	-1.0

Curve # 46

PC=9+846.386 **D=3˚24′15″ Lt**
PT=9+958.198

Left	Station	Right
-4.0	9+840	+1.5
-4.0	9+860	+4.0
-4.0	9+940	+4.0
-3.5	9+960	+1.5

Curve # 47

PC=10+069.595 **D=0°21′50″ Rt**
PT=10+134.371

Left	Station	Right
-3.0	9+980	-0.5
-3.0	10+000	-3.0
-3.0	10+200	-3.0

Curve # 48

PC=10+203.930 **D=0°20′55″ Rt**
PT=10+225.633

Left	Station	Right
-1.5	10+220	-3.0
+0.5	10+240	-3.5

Curve # 49

PC=10+269.562 **D=4°04′30″ Rt**
PT=10+355.307

Left	Station	Right
+2.5	10+260	-4.0
+4.5	10+280	-4.5
+4.5	10+340	-4.5
+2.0	10+360	-4.0

Curve # 50

PC=10+389.429 **D=1˚20′55″ Lt**
PT=10+545.500

Left	Station	Right
-0.5	10+380	-3.5
-3.0	10+400	-3.0
-3.0	10+540	-3.0
-1.0	10+560	-3.0

Curve # 51

PC=10+580.642 **D=1˚58′15″ Rt**
PT=10+755.821

Left	Station	Right
+1.0	10+580	-3.0
+3.0	10+600	-3.0
+3.0	10+740	-3.0

Curve # 52

PC=10+883.637 **D=3˚54′00″ Lt**
PT=10+995.077

Left	Station	Right
+1.0	10+760	-3.0
-1.0	10+780	-3.0
-3.0	10+800	-3.0
-3.0	10+840	-3.0

Cont. Curve # 52

Left	Station	Right
-3.5	10+860	-0.5
-4.0	10+880	+2.0
-4.5	10+900	+4.5
-4.5	10+980	+4.5
-4.5	11+000	+2.0

Curve # 53

PC= 11+074.461 **D=3˚43′00″ Rt**
PCC=11+221.508 **D=2˚54′38″ Rt**
PCC=11+278.616 **D=7˚3′5″ Rt**
PT=11+389.614

Left	Station	Right
-4.0	11+020	-0.5
-3.0	11+040	-3.0
-1.5	11+060	-3.5
+1.5	11+080	-4.0
+4.5	11+100	-4.5
+4.5	11+260	-4.5
+6.0	11+280	-6.0
+6.0	11+380	-6.0
+3.5	11+400	-4.0

Curve # 54

PC=11+455.709 **D=4°46′25″ Lt**
PT=11+548.710

Left	Station	Right
+1.0	11+420	-2.0
-1.5	11+440	0.0
-3.5	11+460	+2.5
-5.0	11+480	+5.0
-5.0	11+540	+5.0
-4.5	11+560	+2.5

Curve #55

PC=11+605.990 **D=0°24′15″ Lt**
PRC=11+643.036 **D=1°44′47″ Rt**
PT=11+663.351

Left	Station	Right
-4.0	11+580	0.0
-3.5	11+600	-1.5
-3.0	11+620	-3.0
-3.0	11+720	-3.0

Curve # 56

PC=11+706.397 **D=1°50′50″ Rt**
PT=11+736.135

Left	Station	Right
-3.5	11+740	-1.5

Curve # 57

PC=11+788.688 **D=6˚43′01″ Lt**
PCC=11+841.744 **D=10˚55′00″ Lt**
PCC=11+973.854 **D=10˚35′00″ Lt**
PCC=12+060.258 **D=10˚16′20″ Lt**
PT=12+086.974

Left	Station	Right
-4.0	11+760	+1.0
-5.0	11+780	+3.5
-6.0	11+800	+6.0
-6.0	12+080	+6.0
-5.0	12+100	+3.5

Curve # 58

PC=12+363.045 **D=2˚11′ Rt**
PT=12+365.648

Left	Station	Right
-4.0	12+120	+1.0
-3.0	12+140	-1.5
-3.0	12+160	-3.0
-3.0	12+320	-3.0
-1.0	12+340	-3.5
+1.0	12+360	-4.0
+3.0	12+380	-5.0

Curve # 59

PC=12+371.636 **D=5°25′30″ Rt**
PCC=12+909.564 **D=6°59′10″ Rt**
PCC=12+956.506 **D=1°44′45″ Rt**
PT=12+990.343

Left	Station	Right
+5.5	12+400	-5.5
+5.5	12+940	-5.5
+3.0	12+960	-4.5
+2.0	12+980	-3.0
+1.0	13+000	-3.0

Curve # 60

PC=13+098.403 **D=1°9′50″ Lt**
PCC=13+180.451 **D=6°50′30″ Lt**
PCC=13+244.877 **D=11°38′30″ Lt**
PCC=13+274.086 **D=10°01′45″ Lt**
PCC=13+476.194 **D=3°29′30″ Lt**
PT=13+513.400

Left	Station	Right
-1.0	13+020	-3.0
-3.0	13+040	-3.0
-3.0	13+120	-3.0
-3.0	13+140	-1.5
-4.0	13+160	+1.0
-5.0	13+180	+3.5
-6.0	13+200	+6.0
-6.0	13+460	+6.0
-5.0	13+480	+4.5
-4.5	13+500	+4.5
-4.0	13+520	+2.0

Curve # 61

PC=13+612.179 **D=2˚37′40″ Rt**
PCC=13+663.031 **D=6˚21′00″ Rt**
PRC=13+702.676 **D=4˚55′50″ Rt**
PCC=13+842.373 **D=0˚23′15″ Rt**
PT=13+979.115

Left	Station	Right
-3.5	13+540	-0.5
-3.0	13+560	-3.0
-0.5	13+580	-3.5
+1.5	13+600	-4.0
+4.0	13+620	-4.0
+5.0	13+640	-5.0
+5.0	13+820	- 5.0
+2.5	13+840	-4.5
0.0	13+860	-4.0
- 3.0	13+880	-3.0

Curve # 62

PC=13+612.179	**D=0˚02′10″ Lt.**
PRC=14+170.354	**D=0˚52′20″ Rt.**
PCC=14+227.730	**D=6˚02′45″ Rt.**
PCC=14+310.094	**D=0˚52′20″ Rt.**
PT = 14+372.987	
PC = 14+389.167	**D=0˚05′50″ Rt.**
PT = 14+414.084	

Left	**Station**	**Right**
-3.0	**14+140**	**- 3.0**
-2.0	**14+160**	**- 4.0**
+0.5	**14+180**	**- 4.5**
+3.0	**14+200**	**- 5.0**
+5.5	**14+220**	**- 5.5**
+ 5.5	**14+300**	**- 5.5**
+ 3.0	**14+320**	**- 5.0**
+ 0.5	**14+340**	**- 4.5**
- 2.0	**14+360**	**- 4.0**
- 3.0	**14+380**	**- 3.0**

Curve # 63

PC= 14+499.138	**D=2˚37′50″ Lt.**
PT= 14+752.451	
PC=14+756.159	**D=2˚17′20″ Lt.**
PT= 14+905.358	

Left	**Station**	**Right**
-3.0	**14+460**	**- 3.0**
-3.0	**14+480**	**- 1.0**
-3.0	**14+500**	**+ 1.0**
-3.0	**14+520**	**+ 3.0**
-3.0	**14+740**	**+ 3.0**
-3.0	**14+760**	**+ 1.0**
-3.0	**14+780**	**- 1.0**
-3.0	**14+800**	**- 3.0**

Station =14+ 850 - 15+420 (25 MPH) [- 3.0 Lt. & Rt.]

PC= 14+927.361	**D=1˚52′00″ Rt.**
PT= 15+021.429	
PC= 15+095.987	**D=1˚59′40″ Lt.**
PRC=15+184.317	**D=0˚52′20″ Rt.**
PCC=15+226.158	**D=2˚13′30″ Rt.**
PCC=15+280.629	**D=3˚52′50″ Rt.**
PCC=15+304.267	**D=3˚29′30″ Rt.**
PCC=15+311.332	**D=18˚43′30″ Rt.**
PCC=15+341.651	**D=3˚52′50″ Rt.**
PCC=15+350.584	**D=4˚59′20″ Rt.**
PCC=15+368.611	**D=2˚41′10″ Rt.**
PT = 15+420.993	

Elevation Difference Report Between MC10 and TRIA

Station	Existing	Proposed	El Diff.
0+080.000	110.363	110.363	0.000
0+100.000	110.766	110.766	0.000
0+120.000	111.682	111.682	0.000
0+140.000	113.085	113.085	0.000
0+160.000	114.917	114.917	0.000
0+180.000	116.968	117.037	0.069
0+200.000	118.779	118.932	0.153
0+220.000	120.143	120.377	0.234
0+260.000	122.486	122.664	0.178
0+300.000	124.509	124.687	0.178
0+320.000	125.072	125.250	0.178
0+340.000	125.435	125.612	0.177
0+360.000	125.657	125.835	0.178
0+380.000	126.016	126.194	0.178
0+400.000	126.322	126.500	0.178
0+420.000	126.513	126.691	0.178
0+440.000	126.636	126.813	0.177
0+460.000	126.829	127.007	0.178
0+480.000	126.812	126.990	0.178
0+500.000	126.648	126.826	0.178
0+520.000	126.583	126.761	0.178
0+540.000	126.491	126.669	0.178
0+560.000	126.307	126.485	0.178
0+580.000	125.929	126.106	0.177
0+600.000	125.444	125.622	0.178
0+620.000	124.953	125.130	0.177
0+640.000	124.633	124.811	0.178
0+660.000	124.714	124.892	0.178
0+680.000	124.960	125.138	0.178
0+700.000	125.067	125.245	0.178
0+720.000	124.994	125.171	0.177
0+740.000	124.944	125.122	0.178
0+760.000	124.876	125.054	0.178
0+780.000	124.846	125.023	0.177
0+800.000	124.859	125.037	0.178
0+820.000	124.910	125.088	0.178
0+840.000	125.011	125.189	0.178
0+860.000	125.123	125.300	0.177
0+880.000	125.253	125.431	0.178
0+900.000	125.429	125.607	0.178
0+920.000	125.672	125.850	0.178
0+940.000	125.895	126.072	0.177
0+960.000	126.169	126.347	0.178
0+980.000	126.308	126.486	0.178
1+000.000	126.500	126.678	0.178
1+020.000	126.706	126.884	0.178
1+040.000	126.889	127.067	0.178

1+060.000	126.999	127.176	0.177
1+080.000	127.076	127.253	0.177
1+100.000	127.190	127.367	0.177
1+120.000	127.372	127.550	0.178
1+140.000	127.444	127.622	0.178
1+160.000	127.470	127.648	0.178
1+180.000	127.520	127.698	0.178
1+200.000	127.670	127.848	0.178
1+220.000	127.798	127.976	0.178
1+240.000	127.969	128.147	0.178
1+260.000	128.173	128.351	0.178
1+280.000	128.376	128.554	0.178
1+300.000	128.477	128.654	0.177
1+320.000	128.424	128.601	0.177
1+340.000	128.322	128.500	0.178
1+360.000	128.006	128.184	0.178
1+380.000	127.632	127.810	0.178
1+400.000	127.490	127.668	0.178
1+420.000	127.440	127.618	0.178
1+440.000	127.474	127.652	0.178
1+460.000	127.511	127.689	0.178
1+480.000	127.613	127.791	0.178
1+500.000	127.709	127.886	0.177
1+520.000	127.838	128.016	0.178
1+540.000	127.834	128.011	0.177
1+560.000	127.939	128.117	0.178
1+580.000	128.177	128.355	0.178
1+600.000	128.404	128.582	0.178
1+620.000	128.962	129.140	0.178
1+640.000	129.826	130.003	0.177
1+660.000	130.684	130.862	0.178
1+680.000	131.656	131.834	0.178
1+700.000	132.645	132.823	0.178
1+720.000	133.686	133.864	0.178
1+740.000	134.494	134.671	0.177
1+760.000	135.378	135.556	0.178
1+780.000	136.228	136.406	0.178
1+800.000	137.003	137.181	0.178
1+820.000	137.843	138.021	0.178
1+840.000	138.536	138.714	0.178
1+860.000	138.984	139.162	0.178
1+880.000	139.348	139.526	0.178
1+900.000	139.600	139.777	0.177
1+920.000	139.706	139.884	0.178
1+940.000	139.760	139.938	0.178
1+960.000	139.763	139.941	0.178
1+980.000	139.546	139.724	0.178
2+000.000	139.252	139.430	0.178
2+020.000	138.864	139.042	0.178
2+040.000	138.353	138.531	0.178
2+060.000	137.817	137.995	0.178
2+080.000	137.174	137.352	0.178

2+100.000	136.677	136.854	0.177
2+120.000	136.200	136.378	0.178
2+140.000	135.919	136.097	0.178
2+160.000	135.806	135.983	0.177
2+180.000	135.750	135.927	0.177
2+200.000	135.772	135.950	0.178
2+220.000	135.756	135.934	0.178
2+240.000	135.654	135.832	0.178
2+260.000	135.584	135.762	0.178
2+260.400	135.582	135.759	0.177
2+280.000	135.422	135.600	0.178
2+300.000	135.265	135.443	0.178
2+320.000	135.211	135.389	0.178
2+340.000	135.405	135.583	0.178
2+360.000	135.638	135.816	0.178
2+380.000	136.192	136.370	0.178
2+400.000	136.783	136.961	0.178
2+420.000	137.588	137.766	0.178
2+440.000	138.430	138.608	0.178
2+460.000	139.092	139.269	0.177
2+480.000	139.688	139.865	0.177
2+500.000	140.344	140.522	0.178
2+520.000	141.135	141.254	0.119
2+540.000	141.747	141.929	0.182
2+560.000	142.184	142.536	0.352
2+580.000	142.641	143.073	0.432
2+600.000	143.071	143.579	0.508
2+620.000	143.887	144.225	0.338
2+640.000	144.824	145.015	0.191
2+660.000	145.523	145.825	0.302
2+680.000	146.229	146.635	0.406
2+700.000	146.966	147.372	0.406
2+720.000	147.432	147.839	0.407
2+740.000	147.844	148.251	0.407
2+760.000	148.420	148.826	0.406
2+780.000	148.725	149.132	0.407
2+800.000	148.872	149.279	0.407
2+820.000	148.953	149.360	0.407
2+840.000	149.105	149.452	0.347
2+860.000	149.154	149.605	0.451
2+880.000	149.328	150.008	0.680
2+900.000	149.878	150.757	0.879
2+920.000	151.119	151.855	0.736
2+940.000	152.882	153.299	0.417
2+960.000	154.337	154.743	0.406
2+980.000	155.452	155.858	0.406
3+000.000	156.468	156.875	0.407
3+020.000	157.594	158.001	0.407
3+040.000	158.897	159.304	0.407
3+060.000	159.915	160.321	0.406
3+080.000	160.837	161.243	0.406
3+100.000	161.367	161.774	0.407

3+120.000	161.992	162.399	0.407
3+140.000	162.393	162.800	0.407
3+160.000	162.627	163.033	0.406
3+180.000	162.889	163.296	0.407
3+200.000	162.937	163.344	0.407
3+220.000	162.395	162.844	0.449
3+240.000	161.634	162.231	0.597
3+260.000	161.255	161.814	0.559
3+280.000	161.235	161.673	0.438
3+300.000	161.367	161.728	0.361
3+320.000	161.371	161.777	0.406
3+340.000	161.418	161.824	0.406
3+360.000	161.650	162.056	0.406
3+380.000	162.269	162.675	0.406
3+400.000	163.054	163.461	0.407
3+420.000	163.761	164.167	0.406
3+440.000	163.802	164.208	0.406
3+460.000	163.775	164.182	0.407
3+480.000	163.901	164.307	0.406
3+500.000	164.199	164.605	0.406
3+520.000	164.287	164.693	0.406
3+540.000	164.306	164.713	0.407
3+560.000	164.557	164.963	0.406
3+580.000	164.942	165.349	0.407
3+600.000	165.474	165.880	0.406
3+620.000	165.847	166.253	0.406
3+640.000	166.213	166.620	0.407
3+660.000	166.731	167.132	0.401
3+680.000	167.334	167.867	0.533
3+700.000	168.481	168.844	0.363
3+720.000	169.887	170.063	0.176
3+740.000	171.513	171.377	0.136-
3+760.000	172.797	172.440	0.357-
3+780.000	173.177	173.230	0.053
3+800.000	173.450	173.648	0.198
3+820.000	173.605	173.831	0.226
3+840.000	173.675	173.901	0.226
3+860.000	173.773	174.011	0.238
3+880.000	174.035	174.289	0.254
3+900.000	174.575	174.915	0.340
3+920.000	175.464	175.889	0.425
3+940.000	176.886	177.113	0.227
3+960.000	178.180	178.406	0.226
3+980.000	179.127	179.353	0.226
4+000.000	179.823	180.050	0.227
4+020.000	180.062	180.289	0.226
4+040.000	180.189	180.415	0.226
4+060.000	180.297	180.523	0.226
4+080.000	180.709	180.935	0.226
4+100.000	181.376	181.602	0.226
4+120.000	182.193	182.420	0.227
4+140.000	183.137	183.363	0.226

4+160.000	184.058	184.284	0.226
4+180.000	184.947	185.173	0.226
4+200.000	185.909	186.136	0.227
4+220.000	187.046	187.273	0.227
4+240.000	188.378	188.604	0.226
4+260.000	189.792	190.018	0.226
4+280.000	191.299	191.525	0.226
4+300.000	192.651	192.877	0.226
4+320.000	194.082	194.308	0.226
4+340.000	195.613	195.839	0.226
4+360.000	197.090	197.316	0.226
4+380.000	198.574	198.801	0.227
4+400.000	200.074	200.300	0.226
4+420.000	201.542	201.768	0.226
4+440.000	202.925	203.151	0.226
4+460.000	204.029	204.255	0.226
4+480.000	204.861	205.087	0.226
4+500.000	205.414	205.640	0.226
4+520.000	205.831	206.058	0.227
4+540.000	206.057	206.283	0.226
4+560.000	206.231	206.430	0.379
4+580.000	206.263	206.510	0.247
4+600.000	206.316	206.635	0.253
4+620.000	206.500	206.760	0.260
4+640.000	206.891	207.305	0.414
4+660.000	207.775	208.251	0.476
4+680.000	209.091	209.516	0.425
4+700.000	210.520	210.788	0.268
4+720.000	211.917	211.916	0.000
4+740.000	212.758	212.880	0.122
4+760.000	213.238	213.715	0.477
4+780.000	213.676	214.500	0.824
4+800.000	214.282	215.300	1.018
4+820.000	215.387	216.100	0.713
4+840.000	216.801	216.900	0.099
4+860.000	217.971	217.662	0.309-
4+880.000	218.380	218.159	0.221-
4+900.000	218.252	218.383	0.101
4+920.000	218.128	218.395	0.267
4+940.000	218.090	218.437	0.347
4+960.000	218.135	218.352	0.217
4+980.000	218.357	218.552	0.195
5+000.000	218.632	218.858	0.226
5+020.000	218.927	219.153	0.226
5+040.000	219.448	219.674	0.226
5+060.000	219.927	220.154	0.227
5+080.000	220.511	220.737	0.226
5+100.000	221.129	221.292	0.163
5+120.000	221.381	221.770	0.389
5+140.000	221.881	222.187	0.306
5+160.000	222.422	222.654	0.232
5+180.000	222.888	223.121	0.233

5+200.000	223.379	223.606	0.227
5+220.000	223.716	223.942	0.226
5+240.000	223.798	224.025	0.227
5+260.000	223.691	229.971	0.280
5+280.000	223.483	223.917	0.434
5+300.000	223.291	223.864	0.573
5+320.000	223.190	223.810	0.620
5+340.000	223.330	223.917	0.587
5+360.000	223.765	224.346	0.581
5+380.000	224.769	225.176	0.407
5+400.000	226.084	226.347	0.263
5+420.000	227.539	227.701	0.162
5+440.000	229.013	229.094	0.081
5+460.000	230.162	230.487	0.325
5+480.000	231.485	231.881	0.396
5+500.000	232.940	233.274	0.334
5+520.000	234.149	234.556	0.407
5+540.000	235.363	235.770	0.407
5+560.000	236.774	237.181	0.407
5+580.000	238.205	238.611	0.406
5+600.000	239.599	240.006	0.407
5+620.000	240.917	241.324	0.407
5+640.000	242.282	242.688	0.406
5+660.000	243.633	244.040	0.407
5+680.000	245.052	245.270	0.218
5+700.000	246.129	246.443	0.314
5+720.000	246.973	247.277	0.304
5+740.000	247.917	248.040	0.123
5+760.000	248.831	248.650	0.181-
5+780.000	249.384	249.700	0.314-
5+800.000	249.465	249.300	0.165-
5+820.000	249.262	249.340	0.078
5+840.000	248.975	249.226	0.251
5+860.000	248.739	249.100	0.361
5+880.000	248.568	248.793	0.225
5+900.000	248.512	248.738	0.226
5+920.000	248.570	248.796	0.226
5+940.000	248.739	248.966	0.227
5+960.000	248.827	249.053	0.226
5+980.000	248.880	249.107	0.227
6+000.000	248.960	249.187	0.227
6+020.000	249.076	249.302	0.226
6+040.000	249.350	249.576	0.226
6+060.000	249.717	249.943	0.226
6+080.000	250.140	250.367	0.227
6+100.000	250.610	250.836	0.226
6+120.000	250.843	251.069	0.226
6+140.000	250.987	251.213	0.226
6+160.000	251.070	251.296	0.226
6+180.000	251.111	251.337	0.226
6+200.000	251.188	251.414	0.226
6+220.000	251.298	251.524	0.226

6+240.000	251.464	251.690	0.226
6+260.000	251.765	251.992	0.227
6+280.000	252.245	252.471	0.226
6+300.000	252.688	252.915	0.227
6+320.000	253.040	253.266	0.226
6+340.000	253.426	253.652	0.226
6+360.000	253.822	254.048	0.226
6+380.000	254.280	254.507	0.227
6+400.000	254.772	254.998	0.226
6+420.000	255.380	255.606	0.226
6+440.000	256.225	256.451	0.226
6+460.000	257.462	257.689	0.227
6+480.000	259.004	259.230	0.226
6+500.000	260.817	261.044	0.227
6+520.000	262.638	262.864	0.226
6+540.000	264.319	264.545	0.226
6+560.000	266.111	266.337	0.226
6+580.000	267.843	268.070	0.227
6+600.000	269.543	269.769	0.226
6+620.000	271.263	271.489	0.226
6+640.000	272.966	273.192	0.226
6+660.000	274.644	274.871	0.227
6+680.000	276.325	276.551	0.226
6+700.000	278.057	278.283	0.226
6+720.000	279.729	279.955	0.226
6+740.000	281.510	281.736	0.226
6+760.000	283.269	283.496	0.227
6+780.000	284.900	285.127	0.227
6+800.000	286.617	286.843	0.226
6+820.000	288.462	288.689	0.227
6+840.000	290.144	290.371	0.227
6+860.000	291.832	292.058	0.226
6+880.000	293.225	293.452	0.227
6+900.000	294.566	294.792	0.226
6+920.000	295.767	295.994	0.227
6+940.000	296.868	297.094	0.226
6+960.000	297.778	298.004	0.226
6+980.000	298.479	298.705	0.226
7+000.000	299.095	299.321	0.226
7+020.000	299.463	299.689	0.226
7+040.000	299.801	300.028	0.227
7+060.000	300.144	300.370	0.226
7+080.000	300.731	300.957	0.226
7+100.000	301.590	301.816	0.226
7+120.000	302.784	303.010	0.226
7+140.000	304.263	304.489	0.226
7+160.000	305.888	306.115	0.227
7+180.000	307.792	308.019	0.227
7+200.000	309.811	310.037	0.226
7+220.000	311.908	312.135	0.227
7+240.000	313.917	314.143	0.226
7+260.000	315.884	316.110	0.226

7+280.000	317.925	318.152	0.227
7+300.000	319.947	320.173	0.226
7+320.000	321.938	322.164	0.226
7+340.000	323.879	324.105	0.226
7+360.000	325.862	326.089	0.227
7+380.000	327.875	328.101	0.226
7+400.000	329.952	330.178	0.226
7+420.000	332.079	332.305	0.226
7+440.000	334.083	334.310	0.227
7+460.000	335.963	336.189	0.226
7+480.000	337.635	337.862	0.227
7+500.000	339.127	339.353	0.226
7+520.000	340.392	340.618	0.226
7+540.000	341.415	341.641	0.226
7+560.000	342.329	342.555	0.226
7+580.000	343.411	343.638	0.227
7+600.000	344.332	344.559	0.227
7+620.000	345.260	345.487	0.227
7+640.000	346.226	346.453	0.227
7+660.000	347.197	347.423	0.226
7+680.000	348.143	348.370	0.227
7+700.000	349.057	349.284	0.227
7+720.000	350.049	350.276	0.227
7+740.000	351.015	351.242	0.227
7+760.000	351.917	352.143	0.226
7+780.000	352.944	353.171	0.227
7+800.000	353.908	354.134	0.226
7+820.000	354.685	354.911	0.226
7+840.000	355.243	355.469	0.226
7+860.000	355.522	355.748	0.226
7+880.000	355.546	355.772	0.226
7+900.000	355.328	355.554	0.226
7+920.000	354.943	355.170	0.227
7+940.000	354.215	354.441	0.226
7+960.000	353.260	353.486	0.226
7+980.000	352.129	352.355	0.226
8+000.000	350.602	350.829	0.227
8+020.000	348.924	349.150	0.226
8+040.000	347.223	347.449	0.226
8+060.000	345.699	345.925	0.226
8+080.000	344.563	344.790	0.227
8+100.000	343.546	343.772	0.226
8+120.000	342.695	342.922	0.227
8+140.000	342.114	342.340	0.226
8+160.000	341.889	342.116	0.227
8+180.000	341.706	341.933	0.227
8+200.000	341.591	341.817	0.226
8+220.000	341.529	341.756	0.227
8+240.000	341.466	341.693	0.227
8+260.000	341.386	341.612	0.226
8+280.000	341.287	341.514	0.227
8+300.000	341.209	341.435	0.226

8+320.000	341.142	341.368	0.226
8+340.000	341.096	341.322	0.226
8+360.000	341.073	341.300	0.227
8+380.000	341.062	341.288	0.226
8+400.000	340.863	341.090	0.227
8+420.000	340.453	340.680	0.227
8+440.000	339.909	340.135	0.226
8+460.000	339.165	339.392	0.227
8+480.000	338.130	338.357	0.227
8+500.000	336.983	337.209	0.226
8+520.000	335.602	335.828	0.226
8+540.000	334.147	334.373	0.226
8+560.000	332.822	333.111	0.289
8+580.000	331.657	332.129	0.472
8+600.000	330.893	331.273	0.380
8+620.000	330.275	330.543	0.268
8+640.000	329.799	329.939	0.140
8+660.000	329.279	329.461	0.182
8+680.000	328.793	329.109	0.316
8+700.000	328.510	328.822	0.312
8+720.000	328.250	328.512	0.262
8+740.000	327.681	327.853	0.172
8+760.000	326.846	327.073	0.227
8+780.000	325.852	326.078	0.226
8+800.000	324.698	324.925	0.227
8+820.000	323.480	323.707	0.227
8+840.000	322.160	322.386	0.226
8+860.000	320.920	321.146	0.226
8+880.000	319.707	319.934	0.227
8+900.000	318.456	318.682	0.226
8+920.000	317.050	317.276	0.226
8+940.000	315.615	315.841	0.226
8+960.000	314.047	314.273	0.226
8+980.000	312.503	312.730	0.227
9+000.000	310.894	311.139	0.265
9+020.000	309.291	309.517	0.226
9+040.000	307.633	307.940	0.307
9+060.000	305.942	306.210	0.268
9+080.000	304.295	304.479	0.184
9+100.000	302.541	302.699	0.158
9+120.000	300.653	301.022	0.369
9+140.000	298.996	299.522	0.526
9+160.000	297.750	298.379	0.629
9+180.000	296.966	297.590	0.624
9+200.000	296.706	297.158	0.452
9+220.000	296.690	297.081	0.391
9+240.000	296.852	297.181	0.329
9+260.000	297.014	297.282	0.268
9+280.000	297.178	297.383	0.205
9+300.000	297.202	297.430	0.228
9+320.000	297.019	297.248	0.229
9+340.000	296.655	296.883	0.228

9+360.000	296.259	296.487	0.228
9+380.000	295.703	295.932	0.229
9+400.000	294.839	295.068	0.229
9+420.000	293.731	293.960	0.229
9+440.000	292.466	292.694	0.228
9+460.000	290.818	291.047	0.229
9+480.000	288.971	289.200	0.229
9+500.000	287.042	287.271	0.229
9+520.000	284.917	285.146	0.229
9+540.000	282.665	282.893	0.228
9+560.000	280.448	280.676	0.228
9+580.000	278.297	278.525	0.228
9+600.000	276.357	276.585	0.228
9+620.000	274.473	274.702	0.229
9+640.000	272.600	272.829	0.229
9+660.000	270.855	271.084	0.229
9+680.000	269.207	269.436	0.229
9+700.000	267.455	267.684	0.229
9+720.000	265.894	266.123	0.229
9+740.000	264.616	264.845	0.229
9+760.000	263.582	263.811	0.229
9+780.000	262.699	262.927	0.228
9+800.000	262.068	262.297	0.229
9+820.000	261.561	261.790	0.229
9+840.000	261.345	261.573	0.228
9+860.000	261.150	261.379	0.229
9+880.000	261.028	261.256	0.228
9+900.000	261.121	261.347	0.226
9+920.000	261.422	261.651	0.229
9+940.000	261.855	262.084	0.229
9+960.000	262.379	262.600	0.221
9+980.000	263.251	263.487	0.236
10+000.000	264.695	264.949	0.254
10+020.000	266.642	266.697	0.055
10+040.000	268.772	268.417	0.355-
10+060.000	270.666	269.939	0.727-
10+080.000	272.140	271.233	0.907-
10+100.000	272.912	272.300	0.612-
10+120.000	273.276	273.139	0.137-
10+140.000	273.382	273.752	0.370
10+160.000	273.687	274.307	0.620
10+180.000	274.357	275.056	0.699
10+200.000	275.347	276.000	0.653
10+220.000	276.819	276.967	0.148
10+240.000	277.729	277.705	0.024-
10+260.000	278.046	278.181	0.135
10+280.000	278.238	278.428	0.190
10+300.000	278.407	278.642	0.235
10+320.000	278.405	278.633	0.228
10+340.000	278.143	278.371	0.228
10+360.000	277.672	277.901	0.229
10+380.000	277.192	277.421	0.229

10+400.000	276.787	277.027	0.240
10+420.000	276.506	276.728	0.222
10+440.000	276.422	276.688	0.266
10+460.000	276.352	276.727	0.375
10+480.000	276.368	276.665	0.297
10+500.000	276.396	276.623	0.227
10+520.000	276.402	276.629	0.227
10+540.000	276.375	276.601	0.226
10+560.000	276.130	276.356	0.226
10+580.000	275.692	275.919	0.227
10+600.000	275.018	275.245	0.227
10+620.000	274.216	274.442	0.226
10+640.000	273.246	273.472	0.226
10+660.000	272.103	272.329	0.226
10+680.000	271.182	271.409	0.227
10+700.000	270.456	270.683	0.227
10+720.000	269.641	269.867	0.226
10+740.000	268.874	269.100	0.226
10+760.000	268.242	268.468	0.226
10+780.000	267.685	267.911	0.226
10+800.000	267.308	267.535	0.227
10+820.000	267.081	267.307	0.226
10+840.000	266.695	266.921	0.226
10+860.000	266.196	266.423	0.227
10+880.000	265.518	265.745	0.227
10+900.000	264.703	264.929	0.226
10+920.000	263.853	264.079	0.226
10+940.000	263.194	263.421	0.227
10+960.000	262.651	262.877	0.226
10+980.000	262.324	262.550	0.226
11+000.000	262.154	262.370	0.216
11+020.000	262.163	262.389	0.226
11+040.000	262.206	262.584	0.378
11+060.000	262.622	263.008	0.346
11+080.000	263.141	263.526	0.385
11+100.000	263.694	264.044	0.350
11+120.000	264.149	264.524	0.374
11+140.000	264.469	264.733	0.264
11+160.000	264.429	264.673	0.244
11+180.000	264.250	264.477	0.227
11+200.000	263.917	264.143	0.226
11+220.000	263.457	263.683	0.226
11+240.000	262.891	263.117	0.226
11+260.000	262.268	262.494	0.226
11+280.000	261.466	261.693	0.227
11+300.000	260.542	260.768	0.226
11+320.000	259.469	259.695	0.226
11+340.000	258.275	258.501	0.226
11+360.000	256.818	257.144	0.226
11+380.000	255.415	255.641	0.226
11+400.000	254.019	254.245	0.226
11+420.000	252.991	253.217	0.226

11+440.000	252.066	252.360	0.294
11+460.000	251.464	251.635	0.171
11+480.000	250.876	250.926	0.050
11+500.000	250.260	250.310	0.050
11+520.000	249.381	249.431	0.050
11+540.000	248.350	248.400	0.050
11+560.000	247.338	247.388	0.050
11+580.000	246.502	246.552	0.050
11+600.000	245.986	246.036	0.050
11+620.000	245.597	245.647	0.050
11+640.000	244.980	245.008	0.028
11+660.000	244.245	244.474	0.229
11+680.000	243.483	243.972	0.489
11+700.000	242.771	243.514	0.743
11+720.000	242.395	243.100	0.705
11+740.000	242.160	242.730	0.570
11+760.000	242.260	242.405	0.145
11+780.000	242.734	242.123	0.611-
11+800.000	243.461	241.853	1.608-
11+820.000	243.904	241.583	2.321-
11+840.000	243.981	241.306	2.675-
11+860.000	243.960	240.876	3.084-
11+860.497	243.960	240.863	3.097-
11+880.000	244.084	240.233	3.851-
11+900.000	243.230	239.378	3.852-
11+920.000	241.951	238.309	3.642-
11+940.000	240.732	237.027	3.705-
11+960.000	239.310	235.533	3.777-
11+980.000	236.044	233.825	2.219-
12+000.000	234.117	231.911	2.206-
12+020.000	231.978	229.937	2.041-
12+040.000	229.617	227.964	1.653-
12+060.000	227.055	225.990	1.065-
12+080.000	224.443	224.016	0.427-
12+100.000	222.162	222.081	0.081-
12+120.000	220.282	220.375	0.093
12+140.000	218.649	218.831	0.182
12+160.000	217.119	217.310	0.191
12+180.000	215.624	215.919	0.295
12+200.000	214.306	214.677	0.371
12+220.000	213.214	213.584	0.370
12+240.000	212.314	212.641	0.327
12+260.000	211.662	211.847	0.185
12+280.000	211.140	211.203	0.063
12+300.000	210.737	210.707	0.030-
12+320.000	210.401	210.342	0.059-
12+340.000	210.025	209.996	0.029-
12+360.000	209.553	209.598	0.045
12+380.000	208.918	208.994	0.076
12+400.000	208.069	208.177	0.108
12+420.000	207.127	207.146	0.019
12+440.000	205.992	205.953	0.039-

12+460.000	204.683	204.750	0.067
12+480.000	203.240	203.393	0.153
12+500.000	201.661	201.814	0.153
12+520.000	200.108	200.260	0.152
12+540.000	198.567	198.719	0.152
12+560.000	197.053	197.205	0.152
12+580.000	195.268	195.421	0.153
12+600.000	193.524	193.676	0.152
12+620.000	191.948	192.101	0.153
12+640.000	190.289	190.442	0.153
12+660.000	188.671	188.823	0.152
12+680.000	187.222	187.375	0.153
12+700.000	185.610	185.763	0.153
12+720.000	183.970	184.122	0.152
12+740.000	182.380	182.532	0.152
12+760.000	180.694	180.847	0.153
12+780.000	178.824	178.976	0.152
12+800.000	176.908	177.060	0.152
12+820.000	175.212	175.364	0.152
12+840.000	173.730	173.882	0.152
12+860.000	172.371	172.523	0.152
12+870.000	171.704	171.857	0.153
12+880.000	171.026	171.179	0.153
12+900.000	169.619	169.771	0.152
12+920.000	168.197	168.350	0.153
12+940.000	166.640	166.793	0.153
12+960.000	164.972	165.125	0.153
12+980.000	163.419	163.572	0.153
13+000.000	162.086	162.238	0.152
13+020.000	160.869	161.021	0.152
13+040.000	159.743	159.895	0.152
13+060.000	158.706	158.859	0.153
13+080.000	157.766	157.918	0.152
13+100.000	156.899	157.051	0.152
13+120.000	156.081	156.234	0.153
13+140.000	155.234	155.387	0.153
13+160.000	154.565	154.718	0.153
13+180.000	154.080	154.232	0.152
13+200.000	153.635	153.788	0.153
13+220.000	153.149	153.301	0.152
13+240.000	152.750	152.903	0.153
13+260.000	152.434	152.587	0.153
13+280.000	152.025	152.178	0.153
13+300.000	151.471	151.624	0.153
13+320.000	150.639	150.792	0.153
13+340.000	149.386	149.538	0.152
13+360.000	148.044	148.196	0.152
13+380.000	146.566	146.683	0.117
13+400.000	145.014	145.122	0.108
13+420.000	143.239	143.605	0.366
13+440.000	141.693	142.175	0.482
13+460.000	140.333	140.834	0.501

13+480.000	139.213	139.579	0.366
13+500.000	138.118	139.369	0.251
13+520.000	137.007	137.159	0.152
13+540.000	135.819	135.972	0.153
13+560.000	134.602	134.754	0.152
13+580.000	133.361	133.513	0.152
13+600.000	132.091	132.244	0.153
13+620.000	130.772	130.925	0.153
13+640.000	129.418	129.570	0.152
13+660.000	128.037	128.190	0.153
13+680.000	126.775	126.928	0.153
13+700.000	125.422	125.575	0.153
13+720.000	124.188	124.340	0.152
13+740.000	122.884	123.036	0.152
13+760.000	121.498	121.651	0.153
13+780.000	120.102	120.254	0.152
13+800.000	118.737	118.900	0.163
13+820.000	117.329	117.700	0.371
13+840.000	116.057	116.539	0.482
13+860.000	115.178	115.649	0.471
13+880.000	114.673	115.069	0.596
13+900.000	114.448	114.799	0.351
13+920.000	114.515	114.800	0.285
13+940.000	114.706	114.840	0.134
13+960.000	114.801	114.880	0.079
13+980.000	114.710	114.862	0.152
14+000.000	114.411	114.563	0.152
14+020.000	113.940	114.092	0.152
14+040.000	113.510	113.663	0.153
14+060.000	112.991	113.144	0.153
14+080.000	112.667	112.819	0.152
14+100.000	112.430	112.582	0.152
14+120.000	112.234	112.386	0.152
14+140.000	111.969	112.122	0.153
14+160.000	111.726	111.878	0.152
14+180.000	111.602	111.754	0.152
14+200.000	111.485	111.637	0.152
14+220.000	111.412	111.564	0.152
14+240.000	111.489	111.642	0.153
14+260.000	111.578	111.730	0.152
14+280.000	111.617	111.770	0.153
14+300.000	111.702	111.854	0.152
14+320.000	111.859	112.012	0.153
14+340.000	112.115	112.267	0.152
14+360.000	112.387	112.540	0.153
14+380.000	112.708	112.860	0.152
14+400.000	113.097	113.249	0.152
14+420.000	113.517	113.669	0.152
14+440.000	113.850	114.003	0.153
14+460.000	114.271	114.424	0.153
14+480.000	114.643	114.796	0.153
14+500.000	114.865	115.017	0.152

14+520.000	115.020	115.173	0.153
14+540.000	115.131	115.283	0.152
14+560.000	115.106	115.258	0.152
14+580.000	115.022	115.175	0.153
14+600.000	114.795	114.948	0.153
14+620.000	114.461	114.613	0.152
14+640.000	114.105	114.257	0.152
14+660.000	113.727	113.879	0.152
14+680.000	113.285	113.437	0.152
14+700.000	112.855	113.007	0.152
14+720.000	112.495	112.647	0.152
14+740.000	112.155	112.308	0.153
14+760.000	111.894	112.047	0.153
14+780.000	111.696	111.849	0.153
14+800.000	111.593	111.745	0.152
14+820.000	111.768	111.920	0.152
14+840.000	112.041	112.193	0.152
14+860.000	112.467	112.620	0.153
14+880.000	112.893	113.071	0.178
14+900.000	113.519	113.521	0.002
14+920.000	114.082	113.972	0.110-
14+940.000	114.445	114.070	0.375-
14+960.000	114.131	113.462	0.669-
14+980.000	112.983	112.501	0.482-
15+000.000	112.029	111.718	0.311-
15+020.000	111.384	111.292	0.092-
15+040.000	111.177	111.177	0.002-
15+060.000	111.078	111.078	0.000
15+080.000	110.997	110.997	0.000
15+100.000	111.099	111.099	0.000
15+120.000	111.337	111.337	0.000
15+140.000	111.539	111.539	0.000
15+160.000	111.648	111.648	0.000
15+180.000	111.702	111.717	0.015
15+200.000	111.692	111.792	0.100
15+220.000	111.777	111.868	0.091
15+240.000	112.081	111.938	0.143-
15+260.000	112.263	111.885	0.378-
15+280.000	111.750	111.667	0.083-
15+300.000	111.212	111.306	0.094
15+320.000	110.914	110.789	0.125-
15+340.000	109.636	109.516	0.120-
15+360.000	108.192	108.192	0.000
15+380.000	107.371	107.371	0.000
15+400.000	107.029	107.029	0.000
15+420.000	106.835	106.835	0.000
15+440.000	106.683	106.683	0.000
15+460.000	106.767	106.767	0.000
15+480.000	107.057	107.057	0.000
15+500.000	107.452	107.452	0.000

Construction Notes

Item # 201.23 Removing Single Tree Top Only

Station		Station	
0+658 lt.	600 mm Pine	0+813 lt.	600mm Spruce
0+820 lt.	900mm Spruce	4+ 865 rt.	750mm Maple
4+870 rt.	750mm Maple	14+946 rt.	750 mm Maple

Item # 201.24 Removing Stump

Station	QTY	Notes
0+658 lt.	1	600 mm Pine
0+813 lt.	1	600mm Spruce
0+820 lt.	1	900mm Spruce
14+946 rt.	1	750 mm Maple

Item # 202.203 Pavement Butt Joints

Paved Drives	45 each	225 M2

Item # 203.2004 Common Excavation (Plan Quantity)

Station to Station	Notes	Quantity(M3)
1+260 – 1+380 lt.	Back slope excavation area	1014.2
2+320 – 2+680 lt.	Back slope excavation area	1832.6
3+460 - 3+660 rt.	Back slope excavation area	606.3
3+730 – 3+790	Construction Section # 1	554.2
3+960 – 4+020 lt.	Back slope excavation area	158.6
4+080 – 4+180 rt.	Back slope excavation area	204.4
4+260 – 4+500 lt. & rt.	Back slope excavation area	666.1
4+610 – 4+950	Construction Section # 2	1847.4
5+440 – 5+540 rt.	Back slope excavation area	495.7
5+730 – 5+870	Construction Section # 4	1073.7
6+720 – 6+800 rt.	Back slope excavation area	162.2
6+860 – 7+000 rt. & lt.	Back slope excavation area	1565.9
7+280 – 7+560 rt. & lt.	Back slope excavation area	1729.1
7+780 – 7+900 rt. & lt.	Back slope excavation area	950.2
8+340 – 8+500 rt. & lt.	Back slope excavation area	590.0
9+540 – 9+720 rt.	Back slope excavation area	803.3

Construction Notes

Item # 203.2004 Common Excavation (Plan Quantity) cont.

Station to Station	Notes	Quantity(M3)
10+000-10+140	Construction Section # 5	2688.4
10+220-10+290	Construction Section # 6	1016.3
10+800-10+900 rt.	Back slope excavation area	1078.4
11+040-11+180 rt. & lt.	Back slope excavation area	471.4
11+680-12+280	Construction Section # 7	21659.5
14+800-15+400	Construction Section # 8	3027.4
11+950 Rt.	McCallister Road	1578.7
0+326	Remove Existing Pipe not being replaced	6.7
3+653	Remove Existing Pipe not being replaced	6.9
4+269	Remove Existing Pipe not being replaced	6.9
4+905	Remove Existing Pipe not being replaced	7.0
9+873	Remove Existing Pipe not being replaced	6.9
10+480	Remove Existing Pipe not being replaced	7.3
14+310	Remove Existing Pipe not being replaced	7.1
Driveway 11+900 Left		1712.5
Deduction of Pavement Quantity in Full Construction Sections		-2319.7*

Project STP-1021(600)X **Total Item # 203.2004= 43,637.0 M3**

Note: Rock Excavation (Item # 203.21) in 203.20 areas is an unknown quantity and will be deducted from Plan Quantity Excavation when known. X-sections will take precedence over any discrepancy between construction notes and X-sections.
*** Pavement Removal is incidental to Item 310.24.**

Item # 205.51 Widen Existing Shoulder

Station	Station	Location	Width	Quantity (M2)
6+440	6+500	Rt.	Taper 0 – 2.4M	72
6+500	7+800	Rt.	2.4M	3120
7+800	7+860	Rt.	Taper 2.4M - 0	72
12+280	13+200	Lt.	2.4 M	2208
13+200	13+260	Lt.	Taper 2.4M – 0	72
			Total =	5,544 M2

Note: Quantities for 2.4M shoulder 11+990 – 12+280 Lt. are included in Full Construction Section # 7

Construction Notes

Items # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Right Side

Station to Station	Inslope	Ditch	New Ditch	
0+312 - 0+390	78			
0+584 – 0+606		22		
0+606 - 0+671				Fill to 3:1
0+737 - 0+747	10			
0+747 - 0+770		23		End as Swale Ditch
0+793 - 0+807		14		
0+807 - 0+943	136			
0+973 - 0+989			16	
0+989 - 1+087	99			
1+087 - 1+105				Fill to 3:1
1+260 - 1+307			47	
1+307 - 1+343	36			
1+355 - 1+375			20	
1+375 - 1+424	49			
1+424 - 1+632			208	
1+640 - 1+652			12	
1+841 - 1+875	34			
1+900 - 1+933	33			
1+939 - 2+013			74	
2+013 - 2+101	88			
2+101 - 2+162			61	
2+178 - 2+255			77	
2+255 - 2+288	33			
2+888 - 2+340			52	
2+340 – 2+402	62			
2+433 – 2+798	365			
2+839 – 2+928	89			
2+928 – 3+020			92	
3+026 - 3+230			204	
3+245 - 3+291	46			
3+291 - 3+355			64	
3+355 - 3+365	10			
3+365 – 3+398			33	
3+420 - 3+440			20	
3+440 – 3+473		33		
3+473 – 3+684			209	
3+684 – 3+710		26		
3+800 – 3+846			46	
3+846 – 3+887		41		
3+887 – 3+901			14	
3+901 – 3+917		16		

Construction Notes

Items # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Right Side

Station to Station	Inslope	Ditch	New Ditch	
3+917 – 3+960	43			
3+960 - 4+021			`61	
4+055 – 4+060				Fill to 3:1
4+063 - 4+079		16		
4+160 - 4+205			45	
4+205 - 4+242		37		
4+252 – 4+260		8		
4+500 – 4+523		25		
4+530 – 4+610		80		
4+950 – 5+125		175		
5+125 – 5+288			163	
5+320 – 5+338			18	
5+347 - 5+440			93	
5+562 – 5+615	53			
5+615 – 5+676			61	
5+685 – 5+730	45			
5+870 - 5+892	22			
5+903 - 6+045	142			
6+045 - 6+095			50	
6+108 - 6+150			42	
6+150 - 6+440	290			
7+040 – 7+093				Fill to 3:1
7+860 - 8+000			132	
8+000 - 8+063	63			
8+063 - 8+087			24	
8+087 - 8+127	40			
8+127 - 8+200			73	
8+200 - 8+365	165			
8+365 - 8+380			15	
8+500 – 8+540			40	
8+540 - 8+574	34			
8+590 – 8+960		370		
8+976 – 9+129		153		
9+129 – 9+170	41			
9+175 – 9+435		260		
9+448 – 9+540		92		Stone Ditch Protection
9+784 – 9+804	20			
9+817 – 9+832		15		
9+845 – 9+927	82			
9+936 – 10+000		64		

Construction Notes

Items # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Right Side

Station to Station	Inslope	Ditch	New Ditch	
10+290 – 10+340			50	
10+340 – 10+660		320		
10+660 – 10+725			65	
10+725 – 10+800		75		
10+810 – 10+900			90	
10+900- 11+040		140		
11+180 – 11+200			20	
11+200 – 11+272		72		
11+272 – 11+330	58			
11+330 – 11+390		60		
11+390- 11+509	119			
11+517 – 11+538	21			
11+538 – 11+560				Fill to 3:1
11+614 – 11+690		76		
12+300 – 12+358			58	
12+358 – 12+382		24		
12+389 – 12+585		196		
12+585 – 12+670	85			
12+670 – 12+830		160		
12+830 – 12+870	40			
12+870 – 12+880		10		
12+889 – 13+030		141		
13+039 – 13+265	226			
13+265 – 13+364			99	
13+364 – 13+521	157			
13+521 – 13+583		62		
13+583 – 13+650	67			
13+650 – 13+739		89		
13+748 – 13+790		42		
13+809 – 13+876		67		
13+898 – 13+902		4		
13+902 – 13+989	87			
13+996 – 14+020		24		
14+031 – 14+139		108		
14+139 – 14+239	100			
14+239 – 14+277			38	
14+306 – 14+374			68	

Construction Notes

Items # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Right Side

Station to Station	Inslope	Ditch	New Ditch	
14+384 – 14+394			10	
14+428 – 14+468			40	
14+474 – 14+492			16	
14+504 – 14+614				Match existing
14+622 – 14+629	7			
14+635 – 14+760	125			
14+760 – 14+850				Fill to 3:1

Item # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Left Side

Station to Station	Inslope	Ditch	New Ditch	
0+604 - 0+691		87		
0+700 - 0+780		80		Start as Swale
0+789 - 0+877		88		
0+886 - 0+959		73		
0+966 - 1+099		133		
1+113 - 1+146		33		Ditch up Side Road
1+155 - 1+184		29		
1+243 – 1+253		10		
1+253 – 1+384			131	
1+384 – 1+435	51			
1+435 – 1+480		45		
1+480 – 1+530			50	
1+530 – 1+600		70		
1+600 – 1+660			60	
1+689 – 1+798			109	
1+798 – 1+819	21			
1+819 – 1+898			79	
1+898 – 1+953	55			
1+953 – 2+025			72	
2+025 – 2+052		27		
2+052 – 2+124			72	
2+124 – 2+248	124			
2+255 – 2+283			28	
2+283 – 2+320	37			
2+680 – 2+698			18	
2+714 – 2+783		69		
2+814 – 2+873	59			

Construction Notes

Item # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Left Side

Station to Station	Inslope	Ditch	New Ditch	
2+873 – 2+976		103		
2+980 – 3+017		37		
3+017 – 3+240			223	
3+248 – 3+295	47			
3+295 – 3+312		17		
3+324 – 3+372		48		
3+382 – 3+444			62	
3+444 – 3+484	40			
3+484 – 3+525			41	
3+525 – 3+616	91			
3+627 – 3+710	98			
3+811 – 3+855			44	
3+855 – 3+925	70			
3+925 – 3+960			25	
4+030 – 4+056		26		
4+056 – 4+087	31			
4+087 – 4+100			13	
4+109 – 4+152			43	
4+173 – 4+266	93			
4+365 – 4+411	46			
4+411 – 4+475			64	
4+491 – 4+542	51			
4+542 – 4+601			59	
4+950 – 4+962	12			
4+962 – 5+033			71	
5+050 – 5+139	89			
5+164 – 5+251				Match lawn area
5+263 – 5+294			31	
5+294 – 5+303	9			
5+318 – 5+370	52			
5+382 – 5+398		16		
5+406 – 5+430		24		
5+430 – 5+533			103	
5+533 – 5+592		59		
5+592 – 5+730			38	
5+870 – 5+894		24		
5+894 – 5+914			20	
5+914 – 5+942		28		
5+942 – 6+000			58	
6+000 – 6+039	39			
6+039 – 6+093			44	

Construction Notes

Item # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Left Side

Station to Station	Inslope	Ditch	New Ditch	
6+100 – 6+171			71	
6+171 – 6+270	99			
6+270 – 6+298			28	
6+306 – 6+337		31		
6+337 - 6+524	187			
6+524 - 6+656			132	
6+656 - 6+720	64			
6+800 - 6+812			12	
6+818 - 6+859	41			
7+000 – 7+097			97	
7+100 – 7+163	63			
7+163 – 7+193				Fill to 3:1
7+193 – 7+229	36			
7+248 – 7+280	32			
7+564 – 7+607			43	
7+621 – 7+706		85		
7+706 - 7+731	25			
7+731 – 7+780			49	
7+900 – 8+015		15		
8+015 – 8+070	55			
8+070 – 8+340		270		
8+500 – 8+588		88		
8+588 – 8+605	17			
8+605 – 8+681		76		
8+861 – 8+695	14			
8+695 – 8+725		30		
8+731 – 8+955	224			
8+973 – 9+291	318			
9+291 – 9+398			107	
9+398 – 9+410		12		
9+410 – 9+490	80			
9+490 – 9+538		48		
9+538 – 9+752	214			
9+752 – 9+790			38	
9+852 – 9+987	135			
9+987 – 10+000			13	
10+340 – 10+529			189	
10+570 – 10+591		21		
10+603 – 10+630		27		
10+630 – 10+717	87			

Construction Notes

Item # 211.20 / 211.30 / 211.40 Inslope/Ditch/New Ditch Excavation Left Side

Station to Station	Inslope	Ditch	New Ditch	
10+717 – 10+776			59	
10+776 – 10+816	40			
10+816 – 10+881			65	
10+881 – 11+067	186			
11+067 – 11+095			28	
11+095 – 11+114	19			
11+123 – 11+250	127			
11+250 – 11+315			65	
11+315 – 11+370		55		
11+370 – 11+380			10	
11+392 – 11+465		73		
11+556 – 11+633	77			
11+641 – 11+690	49			
13+260 - 13+364			94	
13+364 - 13+463	99			
13+463- 13+505				Fill to 3:1
13+505 - 13+583		78		
13+583 - 13+650	67			
13+650 - 13+739		89		
13+748 - 13+790		42		
13+809 - 13+876		67		
13+898 - 13+902		4		
13+902 - 13+989	87			
13+996 - 14+020		24		
14+031 - 14+139		108		
14+139 - 14+239	100			
14+239 - 14+277			38	
14+306 - 14+374			68	
14+384 - 14+394			10	
14+428 - 14+468			40	
14+474 - 14+492			18	
14+504 - 14+614				Match
14+622 - 14+629	7			
14+635 - 14+760	125			
14+760 - 14+850				Fill to 3:1

Areas that call for filling to 3:1 shall be incidental to items 211.20, 211.30, and 211.40. Other areas may be added in the field by the Resident.

Construction Notes

Item # 304.1004 Aggregate Subbase Course, Gravel, Plan Quantity

Full Construction Sections

Station to Station		M3	
3+730	3+790	286.2	Construction Section # 1
4+610	4+950	1496.7	Construction Section #2 & #3
5+730	5+870	534.0	Construction Section #4
10+000	10+140	709.8	Construction Section #5
10+220	10+290	349.7	Construction Section #6
11+680	12+280	3222.5	Construction Section #7
14+800	15+400	1021.1	Construction Section #8
McCallister Road		250.7	Side Road in Construction #7

TOTAL = 7,870.7

Pavement Removal Replacement Gravel

(Average of core depths) X (Length) X (Existing Widths) = 17,227.9 M3

Deduct Replacement Gravel in Full construction sections - 2319.7 M3

Total gravel in these areas 14,908.2

Variable Gravel Sections

Computations are differences between existing and proposed Finish Elevations (minus new pavement depth)

0+580	0+680	144.7
2+540	3+720	2584.3
3+790	4+610	405.5
4+940	5+730	1051.4
5+860	10+000	2149.9
10+140	10+220	271.7
10+290	11+680	486.0
12+280	14+800	308.8

TOTAL = 7,402.3

Construction Notes

Item # 304.1004 Aggregate Subbase Course, Gravel, Plan Quantity

Super Elevation Gravel
Areas between Full construction sections

0+220	3+730	3282.8
3+790	4+610	760.2
4+950	5+730	609.4
5+870	7+400	1255.9
7+400	10+000	1505.5
10+140	10+220	30.7
10+290	11+680	740.2
12+800	14+800	941.9

TOTAL = 10,183.6

Extra width Gravel Guardrail Sections	305.1	561.4
Extra width Gravel for Curb Type 3	233.5	233.5
1.8M shoulder area .9 extra width (477X.9X.3)		128.8
(14+470 – 14+950 + - Rt.)		128.8
Match all Drives, Entrances, and Side Roads	1157.3	1,157.3
Turn out at station 8+200		45.7
Driveway 11+900 Lt.		98.2

Deduct .9M width shoulder gravel in 2.4 M shoulder areas

6+440 7+860 (2.4 M Shoulders area)	(- 241.5)	
12+800 13+260 (2.4 M Shoulders area)	(- 134.9)	
Minus	- 376.4 M3	- (376.4)

Item # 304.104 TOTAL = 42,342.1 M3

All Gravel (304.104) will be paid PLAN QUANTITY. The contractor is responsible to verify the quantities and adjust his or her bid accordingly. This quantity includes all gravel required to bring mainline and shoulders to design slopes and elevations given and a 3:1 minimum in-slope, gravel to fill pavement milling areas, variable gravel sections, gravel for full construction areas listed in construction notes, maintenance of traffic gravel in full construction sections, extra width guardrail sections, sidewalks in construction section #8, match all existing drives, entrances, and side roads to the new roadway elevations, existing widths shown are minimums, with new acceptable profile to match existing entrances, as directed by the resident, all shoulder widening including turn out at 8+200 Rt. All computation methods and quantities used for Engineers Estimate are available by contacting Division 7 Project Manager Richard Crawford at 207-562-4228.

Construction Notes

Item # 310.34 Plant Mix Recycle Asphalt Pavement

Station	Station	Width (M)	Total (M2)
0+180	15+420	8.4	128,016.0
2.4M Shoulders		1.5	3,945.0
1.8M Shoulders		.9	477.0
Curb Sections		.9	1167.0
		Total =	133,605 M2

Note: Available RAP material computed from existing pavement widths and core data available (cores varied from .110 to .215 mm depth)

17,227.9 M3 plus side roads 145.1M3 = Total available RAP 17,373 M3 (bidders should verify existing pavement depths)

Any lack of material for this Item will be supplied by the contractor and any excess will become the property of contractor.

Item 534.71 - Precast Box Culvert

Station	Dimensions	
2+309	1.2 D x 2.4 W x 19.5 L	Ref. Plan Sheet

Item 601.22 - Gabions, PVC Coated

Station to Station	M3	
2+627 - 2+640 rt.	20	See typical

Item # 603.16 375mm Culvert. Pipe Option 1

Station	M	Notes
0+017 rt. McAllister rd.	9.1	
0+783 lt.	9.1	
0+880 lt.	9.1	
1+104 lt.	9.1	
1+187 lt.	10.0	
1+637 rt.	9.1	
1+656 rt.	9.1	
2+249 lt.	9.1	
2+970 lt.	6.1	Snowmobile Trail
3+019 rt.	9.1	

Construction Notes

Item # 603.16 375mm Culvert. Pipe Option 1

Station	M	Notes
3+242 lt.	9.1	
3+480 rt.	6.1	Snowmobile Trail
3+490 lt.	6.1	Snowmobile Trail
3+682 rt.	6.1	
4+530 rt.	9.1	
4+605 lt.	9.1	
4+671 lt.	6.1	Field Entrance
4+610 - 4+616 Rt.	6.1	Serve as UD outlet
4+666 - 4+672 Rt.	6.1	Serve as UD outlet
4+800 rt.	9.1	
4+830 rt.	9.1	
4+912 rt.	9.1	
4+982 lt.	9.1	
5+680 rt.	9.1	
5+848 lt.	9.1	
6+096 lt.	9.1	
6+328 rt.	9.1	
7+558 lt.	9.1	
7+890 lt.	14.0	
8+462 Lt.	9.1	
8+589 rt.	12.2	
10+381 rt.	6.1	Snowmobile Trail
10+385 lt.	6.1	Snowmobile Trail
11+258 rt.	9.1	
11+385 rt.	9.1	
11+700 lt.	9.1	
12+460 lt.	18.0	
13+620 lt.	6.1	Snowmobile Trail
13+670 rt.	6.1	Snowmobile Trail
13+740 rt.	9.1	
13+758 lt.	9.1	
13+785 lt.	9.1	
13+942 lt.	9.1	
14+270 lt.	9.1	
14+290 lt.	9.1	
14+380 Rt.	9.1	
14+486 lt.	18.0	
14+567 lt.	9.1	
14+605 lt.	9.1	

Construction Notes

Item # 603.16 375mm Culvert. Pipe Option 1

Station	M	
14+643 lt.	18.0	
14+675 lt.	18.0	
14+722 lt.	18.0	
14+798 lt.	9.1	
15+040 rt.	9.1	
15+213 rt.	18.0	
Undetermined Locations	20.0	

Item # 603.169 375mm Culvert. Pipe Option III

Station to Station	M	
0+565	13.0	Crosspipe between CB's
2+215 lt.	2.4	Extension
3+473 lt.	2.4	Extension
15+219 lt.	12.0	
Undetermined Locations	20.0	

Item # 603.17 450mm Culvert. Pipe Option 1

Station to Station	M	
0+570 - 0+620 rt.	50.0	CB Outlet
2+975 lt.	9.1	
4+080 rt.	9.1	
4+108 lt.	9.1	
4+242 rt.	10.0	
4+637 rt.	9.1	
5+290 Rt.	9.1	
5+342 Rt.	9.1	
5+375 lt.	9.1	
5+400 lt.	9.1	
6+633 Rt.	9.1	
6+695 Rt.	9.1	
6+812 lt.	9.1	
7+350 Rt.	9.1	
12+890 rt.	9.1	
13+695 lt.	3.0	Drive Extension
Undetermined Locations	20.0	

Construction Notes

Item # 603.179 450mm Culvert. Pipe Option III

Station to Station	M	
0+215	9.0	CB to CB
0+195 - 0+214 rt.	19.0	Drain CB across side road
0+658	20.0	
0+749 rt.	1.8	Extension
0+749 lt.	1.2	Extension
0+988	15.0	
1+175	16.0	
1+675 lt.	26.0	Hooper Ledge Rd
1+809	15.0	
2+060	16.0	
2+142	18.0	
2+716	14.4	
2+763	16.0	
3+540	16.5	
3+615	17.0	
3+865	15.0	Research Test Pipe see General Note # 51
4+609	1.2 m Lt. & 1.2 m Rt.	
5+040 lt.	24.4	Reservoir Rd
5+532	18.0	
5+872	18.0	
6+024	16.0	
6+201	20.5	
7+034	18.0	
7+620	16.0	
9+438	17.0	Skewed ahead Lt.
10+270 lt.	3.5	Extension
10+918	19.5	
11+193	17.0	
11+365	18.0	
11+474	20.0	
11+944-11+961 rt.	16.5	
12+794	21.0	
12+800	22.6	
12+905	20.0	
13+495	28.0	
13+819	20.0	
13+800 rt.	18.0	Sodom Rd
Undetermined Locations	20.0	

Construction Notes

Item # 603.199 600mm Culvert. Pipe Option III

Station to Station	M	
1+424	18.0	
3+792 rt.	2.0	Extension
3+789 lt.	2.5	Extension
5+004	20.0	
6+308	16.5	
6+460	19.0	
7+100	21.3	
8+692	20.0	
9+559	18.0	(Research Test Pipe see General Note # 51
9+657	18.0	(Research Test Pipe see General Note # 51
9+874	2.4 lt. & 2.4 rt.	Extensions
10+132	20.0	
10+393	23.0	Move inlet back on line
10+798	20.0	
10+962	20.0	
11+040	21.0	
11+608	15.5	
Undetermined Locations	20.0	

Item # 603.205 750 mm Reinforced Concrete Pipe Class III

Station	M	
6+781	19.5	
8+206	19.5	
8+908	19.5	
10+143	17.0	
10+418	19.5	Move ahead on line

Item 603.215 900mm Reinforced concrete Pipe Class III

Station	M	
3+259	44.0	Twin Pipes
3+908	22.0	
4+378	19.5	
9+891	24.4	
13+042	24.4	

(Removal of Twin Pipes & Headwall incidental to 603 items)

Construction Notes

Item 603.219 900mm Culvert. Pipe Option III

Station	
4+806	Remove 2.4 Rt. & 2.4 Lt. Install 5.5 Rt. & 6.1 Lt. (Removal of Twin Pipes & Headwall incidental to 603 items)

Item # 603.235 1200mm Reinforced Concrete Pipe Class III

Station	M
4+171	19.5
8+585	22.0
14+183	19.5

Item # 603.239 1200mm Culvert. Pipe Option III

Station	M	
4+060	Remove 3 m and install 6 m Rt. Install 2.4 m lt. (Fill 3:1 lt. & rt.)	
9+178 lt.	3.0	Extension
14+833 Rt.	2.4	Fill slope to 3:1

Item # 604.092 Catch Basin Type B1-C

Station	EA	
0+215 lt.	1	
0+215 rt.	1	
0+277 rt.	1	
0+325 lt.	1	Church drainage tie-in
0+354 lt.	1	
0+425 lt.	1	
0+560 lt.	1	
0+570 rt.	1	
15+025 lt.	1	
15+106 lt.	1	
15+164 lt.	1	
15+387 rt.	1	
15+391 lt.	1	

Construction Notes

604.18 Adjust Catch Basin

Station	EA
15+219 lt.	1

Item # 605.09 150mm Type B Underdrain

Station to Station	M
0+277 - 0+305 rt.	28
0+425 - 0+470 lt.	45
0+470 - 0+560 lt.	90
0+470 - 0+570 rt.	100
11+480 - 11+573 lt.	93
11+320 - 11+390 rt.	70
14+950 - 15+025 lt.	75
15+337 - 15+390 lt.	53
15+340 - 15+387 rt.	37

Item # 605.10 150mm Underdrain Outlet

Station to Station	M
11+573 - 11+579 lt.	6.1
11+390 - 11+396 rt.	6.1

Item # 605.11 300mm Type C Underdrain

Station to Station	M
0+215 - 0+277 rt.	62
0+325 - 0+354 lt.	29
0+354 - 0+425 lt.	71
15+025 - 15+106 lt.	81
15+107 - 15+164 lt.	57

Item # 605.12 375mm Type C Underdrain

Station to Station	M
0+216 – 0+325 rt.	109
4+616 - 4+666 rt.	50

Construction Notes

Item # 605.13 450mm Underdrain Type C

Station to Station	M
0+200 – 0+315 lt.	115

Item 606.178 - Guardrail Beam

Station to Station	M
2+798 - 2+809 rt.	11.43
2+802 - 2+813 lt.	11.43
Undetermined locations	15.24

Item # 606.23 Guardrail Type 3C Single Rail

Station to Station	M		Panels
1+145 - 1+233 rt.	87.63		23
1+667 - 1+827 rt.	160.02		42
2+435 - 2+786 rt.	351.00	Attach to Existing Rail	92
2+800 - 2+823 lt.	22.86	Attach to Existing Rail	6
6+631 - 6+764 lt.	133.35		35
9+790 - 9+813 rt.	22.86	Attach to Existing Rail	6
9+821 – 9+829 lt.	7.62		2
9+821 - 9+824 rt.	3.81		1
10+887 - 11+066 lt.	179.07		47
12+023 - 12+071 rt.	49.53		13

Item # 606.232 Guardrail Type 3C over 4.5m Radius

Station to Station	M		Panels
1+233 - 1+238 rt.	7.62		2
1+662 - 1+667 rt.	7.62		2
1+828 - 1+834 rt.	7.62		2
2+430 - 2+435 rt.	7.62		2
2+790 - 2+793 lt.	7.62		2
2+809 - 2+814 rt.	7.62	Attach to Existing Rail	2
9+824 - 9+828 rt.	7.62		2
9+805 – 9+808 lt.	7.62		2
12+071 - 12+076 rt.	7.62		2

Construction Notes

Item # 606.265 Terminal End Single Rail Galvanized Steel

Station	EA
1+238 rt.	1
1+662 rt.	1
1+831 rt.	1
2+430 rt.	1
2+793 lt.	1
2+814 rt.	1
9+805 lt.	1
9+824 rt.	1
12+076 rt.	1

Item # 606.35 Guardrail Delineator Post

11 - 350's	22
9 Radius	18
Curb Runs	50

Item # 606.754 Widen Shoulder for 350 Flared Terminal

Station to Station	EA
1+113 - 1+145 rt.	1
2+828 – 2+859 lt.	1
5+320 - 5+352 lt.	1
5+599 - 5+631 lt.	1
6+764 - 6+796 lt.	1
9+758 - 9+790 rt.	1
9+821 – 9+852 lt.	1
10+855 - 10+887 lt.	1
11+066 - 11+098 lt.	1
11+992 - 12+023 rt	1
13+139 - 13+171 rt.	1
13+259 - 13+291 rt.	1

Construction Notes

Item # 606.79 Guardrail 350 Flared Terminal

Station to Station	EA
1+134 - 1+145 rt.	1
2+828 - 2+839 lt.	1
5+320 - 5+331 lt.	1
6+620 - 6+631 lt.	1
6+764 - 6+775 lt.	1
9+779 - 9+790 rt.	1
9+829 - 9+840 lt.	1
10+876 - 10+887 lt.	1
11+066 - 11+077 lt.	1
12+012 - 12+023 rt.	1
13+160 - 13+171 rt.	1
13+259 - 13+270 rt.	1

Item # 609.31 Type 3 Curb Bituminous

Station to Station	M
0+201 - 0+230 lt.	29
0+238 - 0+272 lt.	34
0+214 - 0+267 rt.	53
0+275 - 0+306 rt.	31
0+369 - 0+380 lt.	11
0+386 - 0+405 lt.	19
0+390 - 0+409 rt.	19
0+417 - 0+426 rt.	9
0+434 - 0+454 rt.	20
0+411 - 0+435 lt.	24
0+440 - 0+473 lt.	33
0+460 - 0+470 rt.	10
0+482 - 0+522 lt.	40
0+484 - 0+492 rt.	8
0+499 - 0+531 rt.	32
0+531 - 0+560 lt.	29
0+536 - 0+573 rt.	37
0+571 - 0+596 lt.	25
4+275 - 4+317 lt.	42
4+327 - 4+353 lt.	26
4+349 - 4+366 rt.	17
4+616 - 4+666 rt.	50
4+673 - 4+716 lt.	43
4+723 - 4+745 lt.	22
4+830 - 4+848 rt	18

Construction Notes

Item # 609.31 Type 3 Curb Bituminous (Continued)

Station to Station	M
4+856 - 4+882 rt.	26
4+865 - 4+883 lt.	18
5+760 - 5+798 lt.	38
11+480 - 11+497 lt.	17
11+505 - 11+543 lt.	38
14+950 - 14+978 lt.	28
14+985 - 14+988 lt.	3
14+996 - 15+026 lt.	30
15+046 - 15+062 lt.	16
15+070 - 15+083 lt.	13
15+092 - 15+107 lt.	15
15+115 - 15+131 lt.	16
15+139 - 15+155 lt.	16
15+163 - 15+202 lt.	39
15+209 - 15+231 lt.	22
15+239 - 15+272 lt.	33
15+285 - 15+308 lt.	23
15+317 - 15+354 lt.	37
15+374 - 15+385 lt.	11
15+393 - 15+398 lt.	5
15+407 - 15+422 lt.	15
14+958 - 15+037 rt.	79
15+250 - 15+290 rt.	40
15+301 - 15+356 rt.	55
15+365 - 15+381 rt.	16
15+417 - 15+433 rt.	16

Item # 610.08 Plain Rip/Rap

Station to Station	M^3	
1+160 – 1+200 Rt.	120	Brook Slope Protection (1 M depth 3 M +- High)
2+309 Lt. & Rt.	30	Concrete Box Ends
Inlet & Outlet Cross Pipes Ends	340+/-	
Downspouts and washouts	100+/-	Locations to be determined in field
Slope Protection	120+/-	Locations to be determined in field
Undetermined	90 +/-	

Construction Notes

Item # 610.18 Stone Ditch Protection

Station to Station	**All ditches 2 m wide and .3 m deep**
2+980 - 3+120 ±	**Rt. & Lt.**
4+240 - 4+360 ±	**Rt.**
4+480 - Run	**Rt.**
5+360 - 5+690	**Rt. & Lt.**
6+480 - 7+600	**Rt. & Lt.**
7+900 - 8-+060	**Rt. & Lt.**
8+800 - 8+910	**Rt.**
8+980 - 9+130	**Rt.**
9+450 - 9+800	**Rt.**
9+940 - 10+100	**Rt.**
12+460 - 12+580	**Rt.**

Drive Ditch 11+990 Lt.

Item # 613.319 Temporary Erosion Control Blanket

This item to be used in all ditches, some ditches may require double width protection. The Resident (or his/her designee) may require blanket to be used on slopes, culvert ends, and driveway radii. All blanket will be installed prior to leaving the project the same working day.

Item # 631 Equipment Rental Areas

Station

5+000 Lt. **Clean existing outlet ditch 35 - 40 M to drain.**
(O.K. by property owner Wayne Martin 4+880 Lt.)
Other ditch outlets where no pipe work is being completed

Subsurface Investigation Locations (Rocks, Frost Heaves, and Sink Holes, Etc.)

0+709	**3.0 lt**	
0+764	**Centerline**	**Rock**
0+812	**.300 rt**	**Rock**
0+927	**3.0 lt**	
0+929	**3.0 lt**	
1+063 to 1+068	**.600 lt**	
1+667	**3.0 rt**	**Rock**
2+400	**Centerline - .300 lt**	
2+700	**Centerline**	
2+891	**1.0 rt**	**Rock**

Construction Notes

Item # 631 Equipment Rental Areas(continued)

Station		
4+569	1.0 lt	Rock
5+531	1.5 rt	
5+676	.300 rt	
5+695	Centerline	
5+811	Centerline	
5+865	3.0 lt	
6+083	Centerline	
6+748	3.0 rt	
6+750	Centerline - .300 rt	
8+340	2.9 rt	
8+491 to 8+550	2.0 - 3.0 rt	
8+742	Centerline	
8+760	Centerline	
8+938	3.0 lt - 3.0 rt	
9+016	Centerline - .300 rt	
9+310	1.0 lt - 1.0 rt	
10+100	Centerline - 2.0 rt	
10+605	Centerline	
10+996	Centerline	
10+997	1.0 rt	
11+000	Centerline	
11+084	Centerline	
11+103	Centerline	
11+415	Centerline	
12+839 to 12+843	Centerline	
14+600	lt - rt	Pipe ?
14+638	lt - rt	Pipe ?

NOTE: Equipment Rental items to be used for other additional work as directed by the Resident

NOTE: Prior to removing any pavement or overlaying, the existing roadway will be inspected for possible subsurface boulders and removed as directed by the resident, using the appropriate equipment rental items. Backfill with (like materials) materials consistent with surrounding materials up to sub-grade, placing aggregate sub-base course gravel from sub-grade to finish grade and compacting all material. All materials and equipment required to backfill holes after removal of boulders will not be paid for directly, but will be considered incidental to the contract item.

NOTE: A stone wall will be removed and reset from station 11+780 to 11+880 Rt. and shall be done with equipment rental. The APE shall be equipped with an attachment that is able to grasp/grab boulders.

GENERAL NOTES

1. All joints between existing and proposed hot bituminous pavement shall be butted. Payment shall be made under Item 202.203 Pavement Butt Joint.

2. Construct Butt Joints at all paved drives and entrances, as directed by the Resident.

3. Where deemed necessary by the Resident, winter sand shall be removed from the edges of shoulders and placed in designated areas or disposed of. Payment will be made under the appropriate contract items.

4. All inslope and ditches in cut areas shall be regraded to 3:1, or flatter, as directed by the Resident.

5. The Contractor shall place suitable existing material, or other material acceptable to the Resident, on all pavement edges to allow no greater than a 40 mm drop-off and flatten all non guardrail inslopes to a minimum slope of 3:1. Payment to be incidental to the contract and or appropriate inslope and ditch excavation Items.

6. All waste material not used on the project shall be disposed of off the project in waste areas approved by the Resident

7. Any damage to the slopes caused by the Contractor's equipment, personnel, or operation shall be repaired to the satisfaction of the Resident. All work, equipment and materials required to make repairs shall be at the Contractor's expense.

8. A one meter (1 m) paved lip shall be placed at all gravel entrances, except woods and field entrances, unless otherwise directed by the Resident.

9. Item # 411.10, Untreated Aggregate Surface Course, may also meet the gradation requirements of item # 204.20, Add Shoulder Aggregate. This Items use is to match new drive and entrance paved lips to existing entrances, all other gravel to construct drives and entrances to match new roadway HMA Base to existing conditions has been included in the estimate and will be incidental to Item# 304.104 A.S.C.G., Plan Quantity.

10. Any necessary cleaning of existing pavement prior to paving shall be incidental to the related paving items.

11. At station 8+200 on the right there is an existing turn out that is approximately 3 M wider than the existing shoulder and approximately 50 M long. The ASC Gravel required to bring this turn out to proper grade has been calculated and included in quantity for 304.104, Plan Quantity.

12. All Side Roads will receive 45mm Base and 30mm Surface Mix, out to the end of roadway radius minimum, as directed Resident.

13. When super elevation exceeds the slope of the low side shoulder, the shoulder will have same slope as traveled way. Any high side shoulders wider than .9 M shall be (- 2%.)

14. No existing drainage shall be abandoned, removed or plugged without prior approval of the Resident.

15. The following shall be incidental to the 603 item(s):
    Any cutting of existing culverts and or connectors necessary to install new culvert replacements or extensions
    All pipe excavation including any cutting and removal of pavement
    All ditching at pipe ends to drain.
    Furnishing, placing, grading, and compacting of any new gravel and/or fill material including any necessary Granular Borrow for under pipes, detours and maintenance of traffic.
    Up to 300mm Granular Borrow under the pipes and (shall meet the requirements for Underwater Backfill)
    All work necessary to connect to existing pipes
    Flow lines may be changed by 0.5M
    Any necessary clearing of brush, small trees, and headwalls at culvert ends

16. Existing culverts and catch basins will be cleaned as directed by the Resident under the appropriate Pay Items.

17. As directed by the Resident, all existing Underdrain Outlets shall be located, cleaned out and ditched as required or replaced as necessary.

18. All connections for Underdrains to roadway culverts will be incidental to U.D. pipe items.

19. Two guardrail delineator posts will be installed at the leading and trailing end of each run of guardrail, one delineator post will also be installed at each underdrain outlet, and at type 3 curb ends, as directed by the Resident.

20. Guardrail 350 Flared Terminals shall be installed concurrently with the placement of each section of beam rail.

21. Beam Guardrail, BCT ends and associated materials, which are removed and not reused on the project will become of the property of the State and shall be delivered to the MDOT maintenance Lot on Route 26 in South Paris. Removal, delivery, dismantling, and stacking shall be incidental to the 606 guardrail items.

22. Holes created by Guardrail removal will be filled and compacted with approved materials as directed by the Resident. Payment to be considered incidental to the guardrail items.

23. All existing cable guardrail shall be removed and become the property of the contractor. Removal and disposal shall be considered incidental to the guardrail items.

24. Reflectorized silver white beam guardrail delineators shall be mounted on all new, existing, modified, removed modified and reset, or removed and reset guardrail. Delineators shall be spaced at 19.05M. Reflectorized beam guardrail delineators shall meet the requirements of section 719.01. The delineators shall be mounted on the guardrail beam at the posts. Beam guardrail delineators will not be paid for directly, but will be considered incidental to 606 guardrail items.

25. Where Curb Type 3 is installed under guardrail, the maximum reveal shall be 100 mm.

26. Backing up bituminous curb is incidental to the curb items. In areas where new bituminous curb is designated to replace existing, the removal of the old bituminous curb shall be incidental to the new curb. Any required Loam, (in lawn areas only) will be as directed by the Resident and paid under appropriate contract Items.

27. No separate payment for Superintendent or Foreman will be made for the supervision of equipment being paid under appropriate rental items.

28. Trim all tree branches to 6 meters above pavement. Payment shall be incidental to the Contract.

29. Acrylic latex color green (Item 658.20) shall be placed on all paved islands. White pavement/curb marking (Item 627.65) shall be applied to all island tapered ends.

30. “Undetermined Locations”, as stated in the Construction Notes, shall be determined by the Resident.

31. Stations referenced in the Construction Notes are approximate.

32. All work shall be done in accordance with the Maine Department of Transportation’s Best Management Practices for Erosion Control & Sediment Control, January, 2000.

33. MDOT will final stripe the project. The Contractor is responsible for transferring the existing striping pattern to the surface course.

34. Where existing excavation in drainage trenches is deemed unusable, a suitable similar material acceptable to the Resident will be obtained for use as backfill in drainage trenches up to sub-grade. Payment will be incidental to 603 Items.

35. The contractor is responsible for the careful **side staking** of existing centerline as per standard specification105.6.2. Side stakes shall be placed safely outside of the construction limits and the existing centerline grades shall be transferred to these stakes. These stakes and grades will be used to layout centerline and determine new construction finish grades from differential elevation sheets furnished. All layout, stakes, and grades will be checked and must be acceptable to the Resident.

36. The Fill areas listed in the Construction Notes and all other non guardrail slopes requiring material shall be graded to a 3:1 or flatter and will be filled with suitable in-slope or ditch excavation. Finishing and grading these slopes to a 3:1 slope or flatter will be incidental to the associated excavation Items. Seeding and Mulch will be paid under appropriate contract Items.

37. All Gravel (304.104) will be paid **PLAN QUANTITY.** The contractor is responsible to verify the quantities and adjust his or her bid accordingly. This quantity includes all gravel required to bring mainline and shoulders to design slopes and elevations given and a 3:1 minimum in-slope, gravel to fill pavement milling areas, variable gravel sections, gravel for full construction areas listed in construction notes, maintenance of traffic gravel in full construction sections, extra width guardrail sections, sidewalks in construction section #8, match all existing drives, entrances, and side roads to the new roadway elevations, existing widths shown are minimums, with new acceptable profile to match existing entrances, as directed by the resident, all shoulder widening including turn out at 8+200 Rt. All computation methods and quantities used for Engineers Estimate are available by contacting Division 7 Project Manager Richard Crawford at 207-562-4228.

38. All clearing necessary to complete the project including but not limited to, ditching areas, backslope excavation areas, Full Construction Sections, and any designated fill areas shall be considered incidental to the contract. All clearing shall be 1.5 M beyond construction limits. The contractor will be responsible for notifying property owners prior to cutting trees, and property owners will have first refusal on any wood.

39. Existing live pasturage shall have the fences (if disturbed) maintained during all phases of construction as directed by the resident. This shall be considered incidental to the contract.

40. Prior to removing any pavement or overlaying, the existing roadway will be inspected for possible subsurface boulders and removed as directed by the resident, using the appropriate equipment rental items. Backfill with (like materials) materials consistent with surrounding materials up to sub-grade, placing aggregate sub-base course gravel from sub-grade to finish grade and compacting all material. All materials and equipment required to backfill holes after removal of boulders will not be paid for directly, but will be considered incidental to the contract item.

41. Any wintered base pavement will require Temporary Pavement markings of paint,

both yellow centerline and white edge lines and will be considered part of Item # 627.76 Temporary Pavement Marking Lines, White or Yellow.

42. Areas requiring fill on project will come from suitable excavation from the project excavation Items.

43. Dust control will not be paid for directly, but will be considered incidental to the Erosion Control Plan.(SEWPCP)

44. Any roadway areas disturbed in 2004 will receive 100mm of Plant Mix Recycle Asphalt Pavement as per 310 Items seasonal limitations and 45mm of Item # 403.213, 12.5 mm Base pavement prior to November 15, 2004 paving deadline, or reference Special Provision 105.

45. All pavement milling areas will have all pavement removed with minimal contamination, any remaining material not broken up will require reclaiming or excavation, existing shoulder material shall be graded (to existing gravel grade)smooth to drain. **At no time** will pavement be removed from more than 3200M (2 miles) of the project, until at least Plant Mix Recycle Asphalt Pavement is placed on previously milled 3200M section.

46. All roadway drainage installation trenches will require 75mm minimum of 12.5 mm, base pavement same day or as directed by the resident. Payment will be incidental to the contract as per Standard Specification 105.4.1.

47. A copy of the project soils report is available on MDOT's web site or by request.

48. This project has been selected for a shallow cross pipe Research Project. This will require cooperation and coordination between Contractor, State, and Research people. Test culverts requires installation of rigid foam insulation on 3 shallow cross pipes Station 3+865(450mm) 9+559 & 9+657 (600mm) and shall include excavation and gravel to 2.4 M either side of pipe trench. MDOT will supply drill rig and install 4" PVC sleeves prior to pipe installation, in the trench area and they must be protected and preserved. University of Maine will install test meters after pipe installation in the sleeves and then sleeves will have to be pulled, UMO will monitor the test areas. These test cross pipes will require Concrete or Metal Opt III pipes, a discussion of this Research Project and all requirements will be included as part of the Pre Construction Meeting.

49. The contractor is responsible to contact local Utility Companies (Paris and Buckfield), for underground utility locations prior to digging for drainage installations on the project.

50. Where existing excavation in drainage trenches is deemed unusable, a suitable similar material acceptable to the Resident will be obtained for use as backfill in drainage trenches up to sub-grade. Payment will be incidental to 603 Items.

General Decision Number ME030009 06/13/2003 ME9

Superseded General Decision No. ME020009

State: Maine

Construction Type:
HIGHWAY

County(ies):

AROOSTOOK	KNOX	SAGADAHOC
FRANKLIN	LINCOLN	SOMERSET
HANCOCK	OXFORD	WALDO
KENNEBEC	PISCATAQUIS	YORK

HIGHWAY CONSTRUCTION PROJECTS excluding major bridging (for example: bascule, suspension and spandrel arch bridges; those bridging waters presently navigating or to be navigatable; and those involving marine construction in any degree); tunnels, building structures in rest area projects and railroad construction.

Modification Number	Publication Date
0	06/13/2003

COUNTY(ies):

AROOSTOOK	KNOX	SAGADAHOC
FRANKLIN	LINCOLN	SOMERSET
HANCOCK	OXFORD	WALDO
KENNEBEC	PISCATAQUIS	YORK

ENGI0004V 04/01/2003

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
Pavers	16.51	6.00
Rollers	16.51	6.00

SUME4024A 10/24/2000

	Rates	Fringes
CARPENTERS	11.60	1.51
IRONWORKERS		
Structural	12.03	1.58
LABORERS		
Drillers	10.00	2.50
Flaggers	6.00	
Guardrail Installers	7.92	
Landscape	7.87	.16
Line Stripper	8.69	.23
Pipelayers	9.21	2.31
Rakers	9.00	1.51
Sign Erectors	10.00	
Unskilled	8.66	1.38
Wheelman	8.50	.43
POWER EQUIPMENT OPERATORS		
Backhoes	11.87	2.05
Bulldozers	12.33	2.88

Cranes	14.06	1.75
Excavators	12.38	2.48
Graders	13.06	3.73
Loaders	11.41	2.87
Mechanics	13.18	2.57
TRUCK DRIVERS		
Dump	9.35	3.10
Tri axle	8.70	1.18
Two axle	8.56	2.19

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator

(See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the

interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

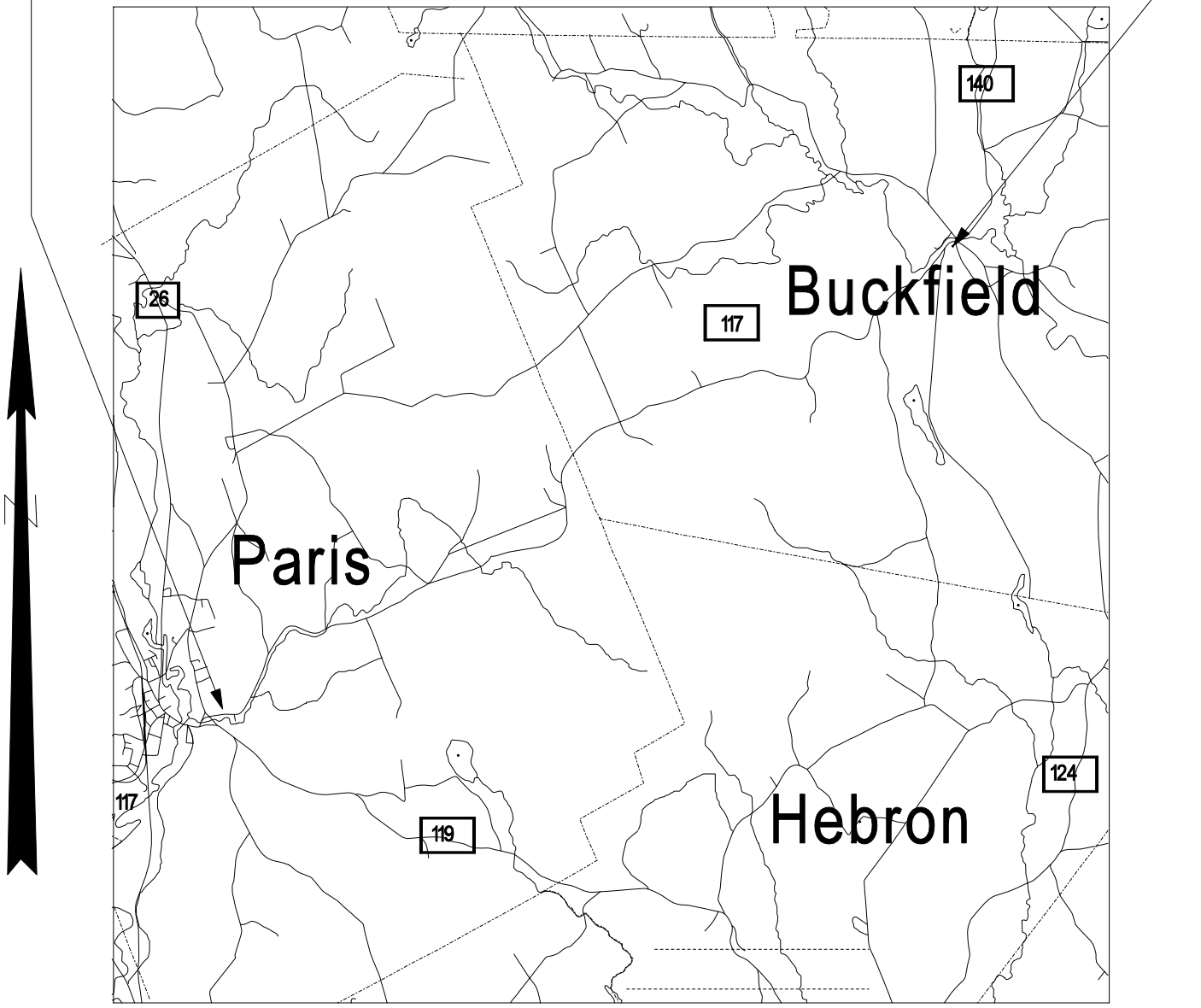
4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

STP-1021(600)X

BEGIN PROJECT STA 0+196

END PROJECT STA 15+460



LOCATION MAP

2 0 2 4

Scale in Kilometers

Project No. STP-1021(600)X

SPECIAL PROVISION
CONSTRUCTION AREA

A Construction Area located in the **Towns of Paris and Buckfield** has been established by the Maine Department of Transportation in accordance with provisions of Title 29, Section 1703, Maine Revised Statutes Annotated.

The section of highway under construction in Oxford County, project STP-1021(600)X is located on Route 117, beginning in Paris at Cross Street and extending easterly 15.26 km (9.48 mi).

The State Department of Transportation or the State's Engineer may issue permits for stated periods of time for moving construction equipment without loads, low-bed trailers with overloads, over-height, over-width or over-length equipment or materials over all State maintained sections described in the "Construction Area" above and in addition may issue permits for stated periods of time for moving overweight vehicles and loads over the section described in (a) above. The right to revoke such a permit at any time is reserved by the State Department of Transportation and the issuance of such permits shall be subject to any Special Provisions or Supplemental Specifications written for this project.

A Temporary Permit for each move may be issued by the State Department of Transportation or the State's Engineer for moving Contractor's construction equipment used on the project which exceeds the legal limits (shovels, bulldozers, etc.) to sources of construction material over highways maintained by the State reasonably within the area of the project.

The Municipal Officers for the **Towns of Paris and Buckfield** agreed that a permit will be issued to the Contractor for the purpose of hauling loads in excess of the limits as specified in Title 29, Maine Revised Statues Annotated, on the town ways as described in the "Construction Area" and that single move permits will be issued for moving Contractor's construction equipment used on the project which exceeds the legal limits (shovels, bulldozers, etc.) to sources of construction material over town ways reasonably within the area of the project.

In the event it is necessary to transport gravel, borrow, or other construction material in legally registered vehicles carrying legal loads over town ways, a Contractor's Bond of not more than Nine Thousand ($9,000.00) per kilometer of traveled length may be required by the town, the exact amount of said bond to be determined prior to use of any town way.

The maximum speed limits for trucks on any town way will be forty (40) km per hour [25 mph], unless a higher legal limit is specifically agreed upon in writing by the Municipal Officers concerned.

February 7, 1996
Supersedes
May 8, 1995

SPECIAL PROVISION
CONSTRUCTION AREA

Title 29A, M.R.S.A., Subsection 2383. Overlimit movement permits

1. Overlimit movement permits issued by State. The Secretary of State, acting under guidelines and advice of the Commissioner of Transportation, may grant permits to move non-divisible objects having a length, width, height or weight greater than specified in this Title over a way or bridge maintained by the Department of Transportation.

2. Permit Fee. The Secretary of State, with the advice of the Commissioner of Transportation, may set the fee for these permits, at not less than $3, nor more than $15, based on weight, height, length and width.

3. County and municipal permits. A permit may be granted, for a reasonable fee, by county commissioners or municipal officers for travel over a way or bridge maintained by that county or municipality.

4. Permits for weight. A vehicle granted a permit for excess weight must first be registered for the maximum gross vehicle weight allowed for that vehicle.

5. Special mobile equipment. The Secretary of State may grant a permit, for no more than one year, to move pneumatic-tire equipment under its own power, including Class A and Class B special mobile equipment, over ways and bridges maintained by the Department of Transportation. The fee for that permit is $15 for each 30-day period.

6. Scope of permit. A permit is limited to the particular vehicle or object to be moved and particular ways and bridges.

7. Construction permits. A permit for a stated period of time may be issued for loads and equipment employed on public way construction projects, United States Government projects or construction of private ways, when within construction areas established by the Department of Transportation. The Permit:

   A. Must be procured from the municipal officers for a construction area within that municipality;
   B. May require the Contractor to be responsible for damage to ways used in the construction areas and ma provide for:
      (1) Withholding by the agency contraction the work of final payment under contract; or
      (2) The furnishing of a bond by the Contractor to guarantee suitable repair or payment damages.
   C. May be granted by the Department of Transportation or by the state engineer in charge of the construction contract; and
   D. For construction areas, carries no fee and does not come within the scope of this section.

8. Gross vehicle weight permits. The following may grant permits to operate a vehicle having a gross vehicle weight exceeding the prescribed limit:

A. The Secretary of State, with the consent of the Department of Transportation, for state and state aid highways and bridges within city or compact village limits;
B. Municipal officers, for all other ways and bridges within that city and compact village limits; and
C. The county commissioners, for county roads and bridges located in unorganized territory.

9. Pilot vehicles and state police escorts. Pilot vehicles required by a permit must be equipped with warning lights and signs as required by the Secretary of State with the advice of the Department of Transportation.

Warning lights may only be operated and lettering on the signs may only be visible on a pilot vehicle while it is escorting on a public way a vehicle with a permit.

The Secretary of State shall require a State Police escort for a single vehicle or a combination of vehicles of 125 feet or more in length or 16 feet or more in width. The Secretary of State, with the advice of the Commissioner of Transportation, may require vehicles of lesser dimensions to be escorted by the State Police.

The Bureau of State Police shall establish a fee for State Police escorts.

All fees collected must be used to defray the cost of services provided.

With the advice of the Commissioner of Transportation and the Chief of the State Police, the Secretary of State shall establish rules for the operation for the operation of pilot vehicles.

10. Taxes paid. A permit for a mobile home may not be granted unless the applicant provides reasonable assurance that all property taxes, sewage disposal charges and drain and sewer assessments applicable to the mobile home, including those for the current tax year, have been paid or that the mobile home is exempt from those taxes.

1993, c. 683, § S-2, eff. January 1, 1995.

Historical and Statutory Notes

Derivation:

R.S. 1954, c. 22 § 98
Laws 1955, c. 389
Laws 1967, c. 3.
Laws 1971, c. 593, § 22.
Laws 1973, c. 213.
Laws 1975, c. 130, §
Laws 1975, c. 319, § 2 .
Laws 1977, c. 73, § 5.
Laws 1981, c. 413.
Laws 1985, c. 225, § 1
Laws 1987. c. 52.
Laws 1987, 781, § 3.
Laws 1989, c. 866, § B-13.
Laws 1991, c. 388, § 8.
Laws 1993, c. 683, § A-1.
Former 29 M.R.S.A. § 2382.

Cross Reference

Collection by Secretary of State, See 29-A M.R.S.A. § 154.

SPECIAL PROVISION
(Consolidated Special Provisions)

SPECIAL PROVISION SECTION 101
CONTRACT INTERPRETATION

101.2 Definitions - Closeout Documentation

Replace the sentence "A letter stating the amount….. DBE goals." with "DBE Goal Attainment Verification Form"

SPECIAL PROVISION SECTION 102
DELIVERY OF BIDS
(Location and Time)

102.7.1 Location and Time Add the following sentence "As a minimum, the Bidder will submit a Bid Package consisting of the Notice to Contractors, the completed Acknowledgement of Bid Amendments & Submission of Bid Bond Validation Number form, the completed Schedule of Items, 2 copies of the completed Agreement, Offer, & Award form, a Bid Bond or Bid Guarantee, and any other Certifications or Bid Requirements listed in the Bid Book."

SPECIAL PROVISION SECTION 103
AWARD AND CONTRACTING

103.3.1 Notice and Information Gathering Change the first paragraph to read as follows: "After Bid Opening and as a condition for Award of a Contract, the Department may require an Apparent Successful Bidder to demonstrate to the Department's satisfaction that the Bidder is responsible and qualified to perform the Work."

SPECIAL PROVISION SECTION 104
GENERAL RIGHTS AND RESPONSIBILITIES

Delete the entire Section 104.5.9 and replace with the following:

104.5.9 Landscape Subcontractors The Contractor shall retain only Landscape Subcontractors that are certified by the Department's Environmental Office Landscape Unit.

SPECIAL PROVISION SECTION 105
GENERAL SCOPE OF WORK

Delete the entire Section 105.6 and replace with the following:

105.6.1 Department Provided Services The Department will provide the Contractor with the description and coordinates of vertical and horizontal control points, set by the Department, within the Project Limits, for full construction Projects and other Projects where survey control is necessary. For Projects of 1,500 feet in length, or less: The Department will provide three points. For Projects between 1,500 and 5,000 feet in length: The Department will provide one set of two points at each end of the Project. For Projects in excess of 5,000 feet in length, the Department will provide one set of two points at each end of the Project, plus one additional set of two points for each mile of Project length. For non-full construction Projects and other Projects where survey control is not necessary, the Department will not set any control points and, therefore, will not provide description and coordinates of any control points. Upon request of the Contractor, the Department will provide the Department's survey data management software and Survey Manual to the Contractor, or its survey Subcontractor, for the exclusive use on the Department's Projects.

105.6.2 Contractor Provided Services Utilizing the survey information and points provided by the Department, described in Subsection 105.6.1, Department Provided Services, the Contractor shall provide all additional survey layout necessary to complete the Work. This may include, but not be limited to, reestablishing all points provided by the Department, establishing additional control points, running axis lines, providing layout and maintenance of all other lines, grades, or points, and survey quality control to ensure conformance with the Contract. The Contractor is also responsible for providing construction centerline, or close reference points, for all Utility Facilities relocations and adjustments as necessary to complete the Work. When the Work is to connect with existing Structures, the Contractor shall verify all dimensions before proceeding with the Work. The Contractor shall employ or retain competent engineering and/or surveying personnel to fulfill these responsibilities.

The Contractor must notify the Department of any errors or inconsistencies regarding the data and layout provided by the Department as provided by Section 104.3.3 - Duty to Notify Department If Ambiguities Discovered.

105.6.2.1 Survey Quality Control The Contractor is responsible for all construction survey quality control. Construction survey quality control is generally defined as, first, performing initial field survey layout of the Work and, second, performing an independent check of the initial layout using independent survey data to assure the accuracy of the initial layout; additional iterations of checks may be required if significant discrepancies are discovered in this process. Construction survey layout quality control also requires written documentation of the layout

process such that the process can be followed and repeated, if necessary, by an independent survey crew.

105.6.3 Survey Quality Assurance It is the Department's prerogative to perform construction survey quality assurance. Construction survey quality assurance may, or may not, be performed by the Department. Construction survey quality assurance is generally defined as an independent check of the construction survey quality control. The construction survey quality assurance process may involve physically checking the Contractor's construction survey layout using independent survey data, or may simply involve reviewing the construction survey quality control written documentation. If the Department elects to physically check the Contractor's survey layout, the Contractor's designated surveyor may be required to be present. The Department will provide a minimum notice of 48 hours to the Contractor, whenever possible, if the Contractor's designated surveyor's presence is required. Any errors discovered through the quality assurance process shall be corrected by the Contractor, at no additional cost to the Department.

105.6.4 Boundary Markers The Contractor shall preserve and protect from damage all monuments or other points that mark the boundaries of the Right-of-Way or abutting parcels that are outside the area hat must be disturbed to perform the Work. The Contractor indemnifies and holds harmless the Department from all claims to reestablish the former location of all such monuments or points including claims arising from 14 MRSA § 7554-A. For a related provision, see Section 104.3.11 - Responsibility for Property of Others.

SPECIAL PROVISION SECTION 106
QUALITY

106.6 Acceptance Add the following to paragraph 1 of A: "This includes Sections 401 - Hot Mix Asphalt, 402 - Pavement Smoothness, and 502 - Structural Concrete - Method A - Air Content."

Add the following to the beginning of paragraph 3 of A: "For pay factors based on Quality Level Analysis, and"

SPECIAL PROVISION SECTION 107
TIME

107.3.1 General Add the following: "If a Holiday occurs on a Sunday, the following Monday shall be considered a Holiday. Sunday or Holiday work must be approved by the Department, except that the Contractor may work on Martin Luther King Day, President's Day, Patriot's Day, the Friday after Thanksgiving, and Columbus Day without the Department's approval."

SPECIAL PROVISION SECTION 108
PAYMENT

108.4 Payment for Materials Obtained and Stored First paragraph, second sentence, delete the words "…Delivered on or near the Work site at acceptable storage places."

SPECIAL PROVISION SECTION 109
CHANGES

109.1.1 Changes Permitted Add the following to the end of the paragraph: "There will be no adjustment to Contract Time due to an increase or decrease in quantities, compared to those estimated, except as addressed through Contract Modification(s)."

109.1.2 Substantial Changes to Major Items Add the following to the end of the paragraph: "Contract Time adjustments may be made for substantial changes to Major Items when the change affects the Critical Path, as determined by the Department"

109.4.4 Investigation / Adjustment In the third sentence, delete the words "subsections (A) - (E)"

109.7.2 Basis of Payment Replace with the following: "Equitable Adjustments will be established by mutual Agreement for compensable items listed in Section 109.7.3- Compensable Items, based upon Unit or Lump Sum Prices. If Agreement cannot be reached, the Contractor shall accept payment on a Force Account basis as provided in Section 109.7.5 - Force Account Work, as full and complete compensation for all Work relating to the Equitable Adjustment."

109.7.3 Compensable Items Replace with the following: "The Contractor is entitled to compensation for the following items, with respect to agreed upon Unit or Lump Sum Prices:

1. Labor expenses for non-salaried Workers and salaried foremen.

2. Costs for Materials.

3. A markup on the totals of Items 1 and 2 of this subsection 109.7.3 for home office overhead and profit of the Contractor, its Subcontractors and suppliers, and any lower tier Subcontractors or suppliers, with no mark-ups on mark-ups.

4. Cost for Equipment, based on Blue Book Rates or leased rates, as set forth in Section 109.7.5(C), or the Contractor's Actual Costs.

5. Costs for extended job-site overhead.

6. Time.

7. Subcontractor quoted Work, as set forth below in Section 109.7.5 (F)."

109.7.5 Force Account Work

C. Equipment

Paragraph 2, delete sentence 1 which starts; "Equipment leased…."

Paragraph 6, change sentence 2 from "The Contractor may furnish…" to read "If requested by the Department, the Contractor will produce cost data to assist the Department in the establishment of such rental rate, including all records that are relevant to the Actual Costs including rental Receipts, acquisition costs, financing documents, lease Agreements, and maintenance and operational cost records."

Add the following paragraph; "Equipment leased by the Contractor for Force Account Work and actually used on the Project will be paid for at the actual invoice amount plus 10% markup for administrative costs."

Add the following section;

"F. Subcontractor Quoted Work When accomplishing Force Account Work that utilizes Subcontractor quoted Work, the Contractor will be allowed a maximum markup of 5% for profit and overhead."

SPECIAL PROVISION SECTION 110
INDEMNIFICATION, BONDING, AND INSURANCE

Delete the entire Section 110.2.3 and replace with the following:

110.2.3 Bonding for Landscape Establishment Period The Contractor shall provide a signed, valid, and enforceable Performance, Warranty, or Maintenance Bond complying with the Contract, to the Department at Final Acceptance.

The bond shall be in the full amount for all Pay Items for work pursuant to Sec 621, Landscape, payable to the "Treasurer - State of Maine," and on the Department's forms, on exact copies thereof, or on forms that do not contain any significant variations from the Department's forms as solely determined by the Department.

The Contractor shall pay all premiums and take all other actions necessary to keep said bond in effect for the duration of the Landscape Establishment Period described in Special Provision 621.0036 - Establishment Period. If the Surety becomes financially insolvent, ceases to be licensed or approved to do business in the State of Maine, or stops operating in the United States, the Contractor shall file new bonds complying with this Section within 10 Days of the date the Contractor is notified or becomes aware of such change.

All Bonds shall be procured from a company organized and operating in the United States, licensed or approved to do business in the State of Maine by the State of Maine Department of Business Regulation, Bureau of Insurance, and listed on the latest Federal Department of the Treasury listing for "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies."

By issuing a bond, the Surety agrees to be bound by all terms of the Contract, including those related to payment, time for performance, quality, warranties, and the Department's self-help remedy provided in Section 112.1 - Default to the same extent as if all terms of the Contract are contained in the bond(s).

Regarding claims related to any obligations covered by the bond, the Surety shall provide, within 60 Days of Receipt of written notice thereof, full payment of the entire claim or written notice of all bases upon which it is denying or contesting payment. Failure of the Surety to provide such notice within the 60-day period constitutes the Surety's waiver of any right to deny or contest payment and the Surety's acknowledgment that the claim is valid and undisputed.

SPECIAL PROVISION SECTION 401
HOT MIX ASPHALT PAVEMENT

401.18 Quality Control Method A & B Make the following change to paragraph a. QCP Administrator; in the final sentence, change "…certified as a Plant Technician or Paving Inspector…" to "…certified as a Quality Assurance Technologist…"

401.201 Method A Under a. Lot Size, add the following; "Each lot will be divided into a minimum of four sublots for mix properties and five sublots for percent TMD."

SPECIAL PROVISION SECTION 402
PAVEMENT SMOOTHNESS

Add the following: "Projects to have their pavement smoothness analyzed in accordance with this Specification will be so noted in Special Provision 403 - Bituminous Box."

"402.02 Lot Size Lot size for smoothness will be 1000 lane-meters [3000 lane-feet]. A sublot will consist of 20 lane-meters [50 lane-feet]. Partial lots will be included in the previous lot if less than one-half the size of a normal lot. If greater than one-half the normal lot size, it will be tested as a separate lot."

SPECIAL PROVISION SECTION 502
STRUCTURAL CONCRETE

502.0502 Quality Assurance Method A - Rejection by Resident Change the first sentence to read: "For an individual sublot with test results failing to meet the criteria in Table #1, or if the calculated pay factor for Air Content is less than 0.80……"

502.0503 Quality Assurance Method B - Rejection by Resident Change the first sentence to read: "For material represented by a verification test with test results failing to meet the criteria in Table #1, the Department will……"

502.0505 Resolution of Disputed Acceptance Test Results Combine the second and third sentence to read: "Circumstances may arise, however, where the Department may ……"

SPECIAL PROVISION SECTION 504
REINFORCING STEEL

504.18 Plates for Fabricated Members Change the second paragraph, first sentence from: "…ASTM A 898/A 898 M…" to "…ASTM A 898/A 898 M or ASTM A 435/A 435 M as applicable and…"

SPECIAL PROVISION SECTION 535
PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE

535.02 Materials Change "Steel Strand for Concrete Reinforcement" to "Steel Strand." Add the following to the beginning of the third paragraph; "Concrete shall be Class P conforming to the requirements in this section. 28 day compressive strength shall be as stated on the plans. Coarse aggregate…."

535.26 Lateral Post-Tensioning Replace the first paragraph; "A final tension…" with "Overstressing strands for setting losses cannot be accomplished for chuck to chuck lengths of 7.6 m [25 ft] and less. In such instances, refer to the Plans for all materials and methods. Otherwise, post-tensioning shall be in accordance with PCI standards and shall provide the anchorage force noted in the Plans. The applied jacking force shall be no less than 100% of the design jacking force."

SPECIAL PROVISION SECTION 604
MANHOLES, INLETS, AND CATCH BASINS

604.02 Materials Add the following:

"Tops and Traps	712.07
Corrugated Metal Units	712.08
Catch Basin and Manhole Steps	712.09"

SPECIAL PROVISION SECTION 605
UNDERDRAINS

605.05 Underdrain Outlets Make the following change:

In the first paragraph, second sentence, delete the words "metal pipe".

SPECIAL PROVISION SECTION 615
LOAM

615.02 Materials Make the following change:

Organic Content	Percent by Volume
Humus	"5% - 10%", as determined by Ignition Test

SPECIAL PROVISION SECTION 618
SEEDING

618.01 Description Change the first sentence to read as follows: "This work shall consist of furnishing and applying seed ….." Also remove ",and cellulose fiber mulch" from 618.01(a).

618.03 Rates of Application In 618.03(a), remove the last sentence and replace with the following: "These rates shall apply to Seeding Method 2, 3, and Crown Vetch."

In 618.03(c) "1.8 kg [4 lb]/unit." to "1.95 kg [4 lb]/unit."

618.09 Construction Method In 618.09(a) 1, sentence two, replace "100 mm [4 in]" with "25 mm [1 in] (Method 1 areas) and 50 mm [2 in] (Method 2 areas)"

618.15 Temporary Seeding Change the Pay Unit from Unit to Kg [lb].

SPECIAL PROVISION SECTION 620
GEOTEXTILES

620.03 Placement Section (c)

Title: Replace "Non-woven" in title with "Erosion Control".
First Paragraph: Replace first word "Non-woven" with "Woven monofilament".
Second Paragraph: Replace second word "Non-woven" with "Erosion Control".

620.07 Shipment, Storage, Protection and Repair of Fabric Section (a)

Replace the third sentence with the following: "Damaged geotextiles, as identified by the Resident, shall be repaired immediately."

620.09 Basis of Payment

Pay Item 620.58: Replace "Non-woven" with "Erosion Control"
Pay Item 620.59: Replace "Non-woven" with "Erosion Control"

SPECIAL PROVISION SECTION 621
LANDSCAPING

621.0036 Establishment Period In paragraph 4 and 5, change "time of Final Acceptance" to "end of the period of establishment". In Paragraph 7, change "Final Acceptance date" to ""end of the period of establishment" and change "date of Final Acceptance" to "end of the period of establishment".

SPECIAL PROVISION SECTION 626
HIGHWAY SIGNING

626.034 Concrete Foundations Add to the following to the end of the second paragraph: "Pre-cast and cast-in-place foundations shall be warranteed against leaning and corrosion for two years after the project is completed. If the lean is greater than 2 degrees from normal or the foundation is spalling within the first two years, the Contractor shall replace the foundation at no extra cost."

SPECIAL PROVISION SECTION 637
DUST CONTROL

637.06 Basis of Payment Add the following after the second sentence of the third paragraph: "Failure by the Contractor to follow Standard Specification or Special Provision - Section 637 and/or the Contractor's own Soil Erosion and Pollution Control Plan concerning Dust Control and/or the Contractor's own Traffic Control Plan concerning Dust Control and/or visible evidence of excessive dust problems, as determined by the Resident, will result in a reduction in

payment, computed by reducing the Lump Sum Total by 5% per occurrence per day. The Department's Resident or any other representative of the Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item. Additional penalties may also be assessed in accordance with Special Provision 652 - Work Zone Traffic Control and Standard Specification 656 - Temporary Soil Erosion and Water Pollution Control."

SPECIAL PROVISION SECTION 639
ENGINEERING FACILITIES

639.04 Field Offices Change the forth to last paragraph from: "The Contractor shall provide a fully functional desktop copier…" to "….desktop copier/scanner…"

SPECIAL PROVISION SECTION 652
MAINTENANCE OF TRAFFIC

652.3.5 Installation of Traffic Control Devices In the first paragraph, first sentence; change "Signs shall be erected…" to "Portable signs shall be erected…" In the third sentence; change "Signs must be erected so that the sign face…" to "Post-mounted signs must also be erected so that the sign face…"

652.8.2 Other Items Replace the last paragraph with the following: "There will be no payment made under any 652 pay items after the expiration of the adjusted total contract time."

SPECIAL PROVISION SECTION 656
TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL

656.5.1 If Pay Item 656.75 Provided Replace the second paragraph with the following: "Failure by the Contractor to follow Standard Specification or Special Provision - Section 656 and/or the Contractor's own Soil Erosion and Pollution Control Plan will result in a reduction in payment, computed by reducing the Lump Sum Total by 5% per occurrence per day. The Department's Resident or any other representative of the Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item."

SPECIAL PROVISION SECTION 703
AGGREGATES

703.06 Aggregate for Base and Subbase Delete the first paragraph: "The material shall have…" and replace with "The material shall have a minimum degradation value of 15 as determined by Washington State DOT Test Method T113, Method of Test for Determination of Degradation Value (March 2002 version), except that the reported degradation value will be the result of testing a single specimen from that portion of a sample that passes the 12.5 mm [½ in] sieve and is retained on the 2.00 mm [No. 10] sieve, minus any reclaimed asphalt pavement used."

703.07 Aggregates for HMA Pavements Delete the forth paragraph: "The composite blend shall have…" and replace with "The composite blend, minus any reclaimed asphalt pavement used, shall have a Micro-Deval value of 18.0 or less as determined by AASHTO TP 58. In the event the material exceeds the Micro Deval limit, a Washington Degradation test shall be performed. The material shall be acceptable if it has a value of 30 or more as determined by Washington State DOT Test Method T 113, Method of Test for Determination of Degradation Value (March 2002 version) except that the reported degradation value will be the result of testing a single composite specimen from that portion of the sample that passes the 12.5mm [1/2 inch] sieve and is retained on the 2.00mm [No 10] sieve, minus any reclaimed asphalt pavement used."

703.22 Underdrain Backfill Material Change the first paragraph from "…for Underdrain Type B…" to "…for Underdrain Type B and C…"

SPECIAL PROVISION SECTION 709
REINFORCING STEEL AND WELDED STEEL WIRE FABIC

709.03 Steel Strand Change the second paragraph from "…shall be 12mm [½ inch] AASHTO M203M/M203 (ASTM A416/A416M)…" to "…shall be 15.24 mm [0.600 inch] diameter AASHTO M203 (ASTM A416)…"

SPECIAL PROVISION SECTION 712
MISCELLANEOUS HIGHWAY MATERIALS

Add the following:

"712.07 Tops, and Traps These metal units shall conform to the plan dimensions and to the following specification requirements for the designated materials.

Gray iron castings shall conform to the requirements of AASHTO M105, Class 30, unless otherwise designated.

Carbon steel castings shall conform to the requirements of AASHTO M103/M103M. Grade shall be 450-240 [65-35] unless otherwise designated.

Structural steel shall conform to the requirements of AASHTO M183/M183M or ASTM A283/A283M, Grade B or better. Galvanizing, where specified for these units, shall conform to the requirements of AASHTO M111.

712.08 Corrugated Metal Units The units shall conform to plan dimensions and the metal to AASHTO M36/M36M. Bituminous coating, when specified, shall conform to AASHTO M190 Type A.

712.09 Catch Basin and Manhole Steps Steps for catch basins and for manholes shall conform to ASTM C478M [ASTM C478], Section 13 for either of the following material:

(a) Aluminum steps-ASTM B221M, [ASTM B211] Alloy 6061-T6 or 6005-T5.

(b) Reinforced plastic steps Steel reinforcing bar with injection molded plastic coating copolymer polypropylene. Polypropylene shall conform to ASTM D 4101.

712.23 Flashing Lights Flashing Lights shall be power operated or battery operated as specified.

(a) Power operated flashing lights shall consist of housing, adapters, lamps, sockets, reflectors, lens, hoods and other necessary equipment designed to give clearly visible signal indications within an angle of at least 45 degrees and from 3 to 90 m [10 to 300 ft] under all light and atmospheric conditions.

Two circuit flasher controllers with a two-circuit filter capable of providing alternate flashing operations at the rate of not less than 50 nor more than 60 flashes per minute shall be provided.

The lamps shall be 650 lumens, 120 volt traffic signal lamps with sockets constructed to properly focus and hold the lamp firmly in position.
The housing shall have a rotatable sun visor not less than 175 mm [7 in] in length designed to shield the lens.

Reflectors shall be of such design that light from a properly focused lamp will reflect the light rays parallel. Reflectors shall have a maximum diameter at the point of contact with the lens of approximately 200 mm [8 in].

The lens shall consist of a round one-piece convex amber material which, when mounted, shall have a visible diameter of approximately 200 mm [8 in]. They shall distribute light and not diffuse it. The distribution of the light shall be asymmetrical in a downward direction. The light distribution of the lens shall not be uniform, but shall consist of a small high intensity portion with narrow distribution for long distance throw and a larger low intensity portion with wide distribution for short distance throw. Lenses shall be marked to indicate the top and bottom of the lens.

(b) Battery operated flashing lights shall be self- illuminated by an electric lamp behind the lens. These lights shall also be externally illuminated by reflex-reflective elements built into the lens to enable it to be seen by reflex-reflection of the light from the headlights of oncoming traffic. The batteries must be entirely enclosed in a case. A locking device must secure the case. The light shall have a flash rate of not less than 50 nor more than 60 flashes per minute from minus 30 °C [minus 20 °F] to plus 65 °C [plus 150 °F]. The light shall have an on time of not less than 10 percent of the flash cycle. The light beam projected upon a surface perpendicular to the axis of the light beam shall produce a lighted rectangular projection whose minimum horizontal dimension shall be 5 degrees each side of the horizontal axis. The effective intensity shall not have an initial value greater than 15.0 candelas or drop below 4.0 candelas during the first 336 hours of continuous flashing. The illuminated lens shall appear to be uniformly bright over its entire illuminated surface when viewed from any point within an angle of 9 degrees each side of the vertical axis and 5 degrees each side of the horizontal axis. The lens shall not be less than 175 mm [7 in] in diameter including a reflex-reflector ring of 13 mm [½ in] minimum width around the periphery. The lens shall be yellow in color and have a minimum relative luminous transmittance of 0.440 with a luminance of 2854° Kelvin. The lens shall be one-piece construction. The lens material shall be plastic and meet the luminous transmission requirements of this specification. The case containing the batteries and circuitry shall be constructed of a material capable of withstanding abuse equal to or greater than 1.21 mm thick steel [No. 18 U.S. Standard Gage Steel]. The housing and the lens frame, if of metal shall be properly cleaned, degreased and pretreated to promote adhesion. It shall be given one or more coats of enamel which, when dry shall completely obscure the metal. The enamel coating shall be of such quality that when the coated case is struck a light blow with a sharp tool, the paint will not chip or crack and if scratched with a knife will not powder. The case shall be so constructed and closed as to exclude moisture that would affect the proper operation of light. The case shall have a weep hole to allow the escape of moisture from condensation. Photoelectric controls, if provided, shall keep the light operating whenever the ambient light falls below 215 lx [20

foot candles]. Each light shall be plainly marked as to the manufacturer's name and model number.

If required by the Resident, certification as to conformance to these specifications shall be furnished based on results of tests made by an independent testing laboratory. All lights are subject to random inspection and testing. All necessary random samples shall be provided to the Resident upon request without cost to the Department. All such samples shall be returned to the Contractor upon completion of the tests.

712.32 Copper Tubing Copper tubing and fittings shall conform to the requirements of ASTM B88M Type A [ASTM B88, Type K] or better.

712.33 Non-metallic Pipe, Flexible Non-metallic pipe and pipe fittings shall be acceptable flexible pipe manufactured from virgin polyethylene polymer suitable for transmitting liquids intended for human or animal consumption.

712.34 Non-metallic Pipe, Rigid Non-metallic pipe shall be Schedule 40 polyvinylchloride (PVC) that meets the requirement of ASTM D1785. Fittings shall be of the same material.

712.341 Metallic Pipe Metallic pipe shall be ANSI, Standard B36.10, Schedule 40 steel pipe conforming to the requirements of ASTM A53 Types E or S, Grade B. End plates shall be steel conforming to ASTM A36/A36M.

Both the sleeve and end plates shall be hot dip galvanized. Pipe sleeve splices shall be welded splices with full penetration weld before galvanizing.

712.35 Epoxy Resin Epoxy resin for grouting or sealing shall consist of a mineral filled thixotropic, flexible epoxy resin having a pot life of approximately one hour at 10°C [50°F]. The grout shall be an approved product suitable for cementing steel dowels into the preformed holes of curb inlets and adjacent curbing. The sealant shall be an approved product, light gray in color and suitable for coating the surface.

712.36 Bituminous Curb The asphalt cement for bituminous curb shall be of the grade required for the wearing course, or shall be Viscosity Grade AC-20 meeting the current requirements of Subsection 702.01 Asphalt Cement. The aggregate shall conform to the requirements of Subsection 703.07. The coarse aggregate portion retained on the 2.36 mm [No. 8] sieve may be either crushed rock or crushed gravel.

The mineral constituents of the bituminous mixture shall be sized and graded and combined in a composite blend that will produce a stable durable curbing with an acceptable texture.
Bituminous material for curb shall meet the requirements of Section 403 - Hot Bituminous Pavement.

712.37 Precast Concrete Slab Portland cement concrete for precast slabs shall meet the requirements of Section 502 - Structural Concrete, Class A.

The slabs shall be precast to the dimension shown on the plans and cross section and in accordance with the Standard Detail plans for Concrete Sidewalk Slab. The surface shall be finished with a float finish in accordance with Subsection 502.14(c). Lift devices of sufficient strength to hold the slab while suspended from cables shall be cast into the top or back of the slab.

712.38 Stone Slab Stone slabs shall be of granite from an acceptable source, hard, durable, predominantly gray in color, free from seams which impair the structural integrity and be of smooth splitting character. Natural color variations characteristic of the deposit will be permitted. Exposed surfaces shall be free from drill holes or indications of drill holes. The granite slabs in any one section of backslope must be all the same finish.

The granite slabs shall be scabble dressed or sawed to an approximately true plane having no projections or depressions over 13 mm [½ in] under a 600 mm [2 ft] straightedge or over 25 mm [1 in] under a 1200 mm [4 ft] straightedge. The arris at the intersection of the top surface and exposed front face shall be pitched so that the arris line is uniform throughout the length of the installed slabs. The sides shall be square to the exposed face unless the slabs are to be set on a radius or other special condition which requires that the joints be cut to fit, but in any case shall be so finished that when the stones are placed side by side no space more than 20 mm [3/4 in] shall show in the joint for the full exposed height.

Liftpin holes in all sides will be allowed except on the exposed face.

SPECIAL PROVISION SECTION 717
ROADSIDE IMPROVEMENT MATERIAL

717.05 Mulch Binder. Change the third sentence to read as follows:

"Paper fiber mulch may be used as a binder at the rate of 2.3 kg/unit [5 lb/unit]."

SPECIAL PROVISIONS
SECTION 104
Utilities

MEETING

A Pre-construction Utility Conference, as defined in Subsection 104.4.6 of the Standard Specifications **is** required.

GENERAL INFORMATION

These Special Provisions outline the arrangements that have been made by the Department for utility and/or railroad work to be undertaken in conjunction with this project. The following list identifies all known utilities or railroads having facilities presently located within the limits of this project or intending to install facilities during project construction.

Overview:

Utility/Railroad	Aerial	Underground
Central Maine Power Company	X	
Adelphia Communications Corp.	X	
Oxford Telephone Company	X	
Verizon	X	
Buckfield Village Corporation		X
Paris Utility District		X

Temporary utility adjustments are **not** anticipated. If temporary relocation becomes necessary, sufficient time will need to be allowed prior to the construction for all required temporary relocation.

All utility crossings over highways will provide not less than 18 feet vertical clearance over existing ground in cut or over finished grade in fill, during construction of this project.

Any times and dates mentioned are estimates only and are dependent upon favorable weather, working conditions, and freedom from emergencies. The Contractor shall have no claim against the Department if they are exceeded.

AERIAL

Central Maine Power Company plans to relocate approximately 120 poles as part of this project. A full comprehensive pole list was not available at advertise. Proposed poles that were submitted by CMP were plotted on the plans and are included in this poles list. The proposed pole list and estimated times for setting and transferring is noted below. The contractor shall prioritize this work as to facilitate a prompt relocate by Central Maine Power in the area of Sta. 11+700 to Sta. 12+200.

Verizon & Oxford Networks Corp. transfer times will be able to run in conjunction with each other as they are on different ends of the project.

Utility/Railroad	Pole Set	Transfer wire or Install new wire	Remove Poles	Total Estimated Working Time
Central Maine Power Co.	4 weeks	12 weeks	3 weeks	19 weeks
Adelphia Comm. Corp.	-	8 weeks	-	8 weeks
Verizon Paris Sta. 0+200 –Sta. 7+800	-	12 weeks	-	12 weeks
Oxford Networks Corp. Buckfield Sta. 8+100 – 15+440	-	12 weeks	-	12 weeks
		Project	**Total =**	**39 weeks**

Pole List:

Existing Pole #	Existing Sta.	Offset	Proposed Sta.	Offset	Comments
7700 / L/CMP 2/2	0+196	7.56 RT	-	-	
CMP 3	0+232	6.35 RT	-	-	
CMP 4	0+281	5.28 RT	TBD	6.4 min.	Relocate
CMP 5	0+306	7.25 LT	-	-	
CMP 6	0+346	6.71 LT	-	-	
CMP 7	0+386	6.50 LT	-	-	
CMP 8.1	0+442	5.47 RT	TBD	6.4 min.	Relocate
CMP 6 8	0+443	7.81 LT	-	-	
CMP 7 9	0+496	5.92 LT	TBD	6.4 min.	Relocate
CMP 8 21 10	0+543	7.43 LT	-	-	
					Emery Ave., Rt.
CMP 11 11	0+586	6.24 RT	-	-	
74/47	0+642	7.23 LT	-	-	Complete Transfer
CMP 12 / 12	0+646	5.61 RT	TBD	6.4 min.	Relocate
CMP 13 / 13	0+693	5.43 RT	TBD	6.4 min.	Relocate
CMP 14 / 14	0+746	4.91 LT	TBD	6.4 min.	Relocate
CMP 15 / 15	0+789	5.32 LT	TBD	6.4 min.	Relocate
CMP 16 / 15	0+839	5.43 LT	TBD	6.4 min.	Relocate
CMP 17 / 17	0+889	6.69 LT	-	-	
NET 18 / 18	0+744	6.07 LT	-	-	
					Brett Hill Road, Rt.
NET&T 19S	1+043	7.85 RT	-	-	
NET&T 19	1+044	6.82 LT	-	-	
NYNEX 19 / 19	1+097	7.09 LT	-	-	

NET&T 21	1+141	5.79 LT	TBD	6.4 min.	Relocate
21/ 20/CMP	1+196	7.47 LT	-	-	
CMP 21 / 22	1+255	7.94 LT	-	-	
NET&T 22/21	1+340	5.55 LT	-	-	
NET 23/24	1+441	6.50 LT	-	-	
CMP 24 / 25	1+540	6.04 LT	-	-	
CMP 25 S	1+541	6.27 RT	-	-	
NET 25 / 26	1+640	7.45 LT	-	-	
					Hooper Ledge Road, Lt.
CMP 25 / 26	1+692	9.73 LT	-	-	
NET 27 / 28	1+765	8.52 LT	-	-	
NET 28 / 29	1+855	8.22 LT	-	-	
NET 29 / 30	1+945	7.71 LT	-	-	
NET 30 / 31	2+035	7.64 LT	-	-	
NET 31 / 32	2+112	8.65 LT	-	-	
NET 31.3 / 33	2+181	12.91 RT	-	-	
NET 31.5 / 34	2+225	13.74 RT	-	-	
NET 32 / 35	2+295	5.80 LT	TBD	6.4 min.	Relocate
NET 33 / 36	2+399	5.92 LT	TBD	6.4 min.	Relocate
NYNEX 33	2+399	7.32 RT	-	-	
36 S / 40 S	2+765	6.86 RT	-	-	
36 / 40	2+777	8.40 LT	-	-	
					Stock Farm Road, Lt.
NET 38 / 41	2+831	6.06 LT	-	-	GR CONFLICT
NET 38.5 / 37.5	2+856	5.32 LT	TBD	6.4 min.	Relocate
NET 39 / 43	2+946	5.78 LT	TBD	6.4 min.	Relocate
NET 40 / 44	3+036	5.60 RT	TBD	6.4 min.	Relocate
NET 41 / 45	3+125	6.15 RT	TBD	6.4 min.	Relocate
NET 42 / 46	3+218	5.76 RT	TBD	6.4 min.	Relocate
NET 43 / 47	3+316	5.51 RT	TBD	6.4 min.	Relocate
NET 43.5 / 48	3+375	4.95 RT	TBD	6.4 min.	Relocate
					Brett Hill Road, Rt.
S	3+421	5.14 LT	-	-	Relocate Cable Guy
213>/NET 44 / 44	3+422	6.16 RT	TBD	6.4 min.	Relocate

NET 45 / 50	3+512	5.5 RT	TBD	6.4 min.	Relocate
NET 46 / 51	3+599	5.23 RT	TBD	6.4 min.	Relocate
NET 47 / 52	3+699	6.84 RT	-	-	
NET 48 / 53	3+799	5.81 RT	TBD	6.4 min.	Relocate
NET 48S/CMP	3+799	6.87 LT	-	-	
21/49	3+899	5.85 RT	TBD	6.4 min.	Relocate
NET 21/50	3+988	6.20 LT	TBD	6.4 min.	Relocate
NET 50S	3+989	9.57 RT	-	-	
NET 51	4+063	9.62 LT	-	-	
NET 52	4+139	5.98 LT	TBD	6.4 min.	Relocate
NET 53	4+200	6.97 LT	-	-	
NET 53 / 703	4+228	6.26 RT	TBD	6.4 min.	Relocate
NET 54/702	4+313	6.88 RT	-	-	
NET 55 / 701	4+400	6.04 RT	TBD	6.4 min.	Relocate
					Christian Ridge Road, Lt. King Hill Road, Rt.
56 / 95	4+486	9.86 RT	-	-	
CMP 501 57	4+516	8.27 RT	-	-	
CMP 502 58	4+594	7.44 RT	-	-	
CMP 503	4+640	7.42 RT	-	-	
CMP 504 60	4+689	6.83 RT	-	-	
CMP 505 61	4+739	6.39 RT	-	-	
CMP 506 62	4+792	5.59 RT	TBD	6.4 min.	Relocate
CMP 507 63	4+838	5.67 RT	TBD	6.4 min.	Relocate
251/CMP 508 64	4+881	6.55 RT	-	-	
9 65	4+956	6.23 RT	TBD	6.4 min.	Relocate
CMP 010S/66S	5+029	20.01 LT	-	-	
CMP 10/112/21/66	5+034	8.81 LT	-	-	INTERSECTION CHANGE
CMP 511/67	5+131	7.05 LT	-	-	
CMP 512/68	5+229	5.46 LT	TBD	6.4 min.	Relocate
NET 69/013	5+326	5.98 LT	TBD	6.4 min.	Relocate
CMP 514 / 70	5+426	6.16 LT	TBD	6.4 min.	Relocate
CMP 515 / 71	5+524	5.88 LT	TBD	6.4 min.	Relocate
CMP 516 / 72	5+624	7.31 LT	-	-	
CMP 517.1 / 73.1	5+686	8.91 RT	-	-	

CMP 517 / 73	5+727	6.67 RT	-	-	
CMP 518.1	5+795	8.41 LT	-	-	
CMP 518 / 74	5+824	6.52 RT	-	-	
CMP 519 / 75	5+921	6.55 RT	-	-	
CMP 519S / 75S	5+921	5.58 LT	TBD	6.4 min.	Relocate
CMP 520 / 76	6+020	5.89 RT	TBD	6.4 min.	Relocate
CMP 520S / 76S	6+021	5.97 LT	TBD	6.4 min.	Relocate
CMP 521 / 77	6+127	5.98 RT	TBD	6.4 min.	Relocate
CMP 522 / 78	6+231	5.50 RT	TBD	6.4 min.	Relocate
CMP 523 / 79	6+303	5.75 RT	TBD	6.4 min.	Relocate
CMP 524/79.5	6+334	4.65 RT	TBD	6.4 min.	Relocate
CMP 525/21/80	6+439	5.14 RT	TBD	6.4 min.	Relocate
CMP 526/81	6+538	6.25 RT	TBD	6.4 min.	Relocate
					Sta.6+580 Begin 2.4M Shoulder Rt. (7.5 min.)
CMP 527 / 82	6+636	5.48 RT	TBD	7.5 min.	Relocate
CMP 528 / 83	6+735	6.68 RT	TBD	7.5 min.	Relocate
CMP 529/84	6+797	6.59 LT	TBD	7.5 min.	Relocate
CMP 530/84.5	6+833	4.97 RT	TBD	7.5 min.	Relocate
CMP 531/21/85	6+932	7.65 RT	TBD	7.5 min.	Relocate
CMP 532/86	7+030	5.87 RT	TBD	7.5 min.	Relocate
CMP 533/87	7+130	6.16 RT	TBD	7.5 min.	Relocate
					LoveJoy Road, Lt. Streaked Mt. Road, Rt.
CMP 534/21/88	7+228	7.41 RT	TBD	7.5 min.	Relocate
CMP 535	7+305	6.81 RT	TBD	7.5 min.	Relocate
CMP 536/21/90	7+379	6.64 RT	TBD	7.5 min.	Relocate
CMP 537	7+453	6.42 RT	TBD	7.5 min.	Relocate
CMP 538/21/92	7+535	6.94 RT	TBD	7.5 min.	Relocate
					Corbett Road Lt.
CMP 539/21/93	7+616	5.19 RT	TBD	7.5 min.	Relocate
POLE NO	7+693	8.56 LT	-	-	
POLE NO	7+769	9.31 LT	-	-	
					Sta. 7+860 End 2.4 Shoulder
					Just Adelphia Ahead

104S	8+959	10.39 RT			
					Whitman School Road Rt.
104/CMP 99	8+975	9.5 RT	-	-	
CMP 98/103	8+054	7.44 RT	-	-	
102/CMP 97	9+143	6.14 RT	TBD	6.4 min.	Relocate
101/CMP 96	9+227	6.74 RT	-	-	
OXT&T 5/100	9+279	8.83 RT	-	-	
CMP 95	9+330	6.67 RT	-	-	
NO NUMBERS	9+385	10.90 RT	-	-	
CMP 94	9+411	6.73 LT	-	-	
OXT&T 97	9+452	7.28 RT	-	-	
CMP 93/OXT	9+505	8.20 LT	-	-	
OXT&T	9+570	7.86 RT	-	-	
CMP 92	9+601	6.58 RT	-	-	
OXT&T 94	9+636	4.62 LT	TBD	6.4 min.	Relocate
CMP 91	9+672	5.77 RT	TBD	6.4 min.	Relocate
OXT&T 93	9+704	5.66 LT	TBD	6.4 min.	Relocate
CMP 90	9+760	6.30 RT	TBD	6.4 min.	Relocate
OXT&T 92	9+767	6.45 LT	-	-	
OXT&T 91	9+828	6.71 LT	-	--	GR Conflict
NO NUMBERS	9+835	10.52 LT	-	-	
CMP 89S/OXT&T	9+864	6.36 LT	-	-	
CMP 89/OXT	9+864	6.99 RT	-	-	
OXT&T 5 90	9+896	4.88 LT	TBD	6.4 min.	Relocate
CMP 88	9+939	6.56 RT	-	-	
OXT 89	9+948	7.48 LT	-	-	
OXT&T 88	10+008	6.74 LT	-	-	
CMP 87	10+043	6.65 RT	-	-	
OXT&T 87	10+069	6.13 LT	TBD	6.4 min.	Relocate
OXT&T 86	10+132	5.80 LT	TBD	6.4 min.	Relocate
CMP 86	10+134	6.87 RT	-	-	
OXT 5 1 85	10+198	5.98 LT	TBD	6.4 min.	Relocate
CMP 85	10+240	5.76 RT	TBD	6.4 min.	Relocate
OXT&T 84	10+259	6.10 LT	TBD	6.4 min.	Relocate

CMP 84/OXT&T	10+318	9.09 LT	-	-	
					Verrill Road Lt.
CMP 83/OXT&T	10+387	8.43 LT	-	-	
CMP 82/OXT&T	10+458	7.79 LT	-	-	
CMP 81/OXT	10+537	8.29 LT	-	-	
CMP 80/OXT&T	10+611	5.83 LT	TBD	6.4 min.	Relocate
CMP 79/OXT	10+687	7.29 RT	-	-	
CMP 68	11+531	6.3 RT	-	-	Remain
CMP 67	11+605	6.7 RT	11+603	6.6 RT	Relocate
CMP 66	11+677	6.6 RT	-	-	Remain
CMP 65	11+751	5.3 RT	11+751	6.5 RT	Relocate
CMP 64.1	11+809	10.8 LT	-	-	Remain
CMP 64	11+824	4.8 RT	11+824	6.9 RT	Relocate
CMP 63	11+894	0.4 LT	11+894	6.5 RT.	Relocate
CMP 62/R54/61	11+961	0.8 RT	11+961	6.5 RT.	Relocate
CMP 61	12+025	0.2 LT	12+025	6.0 RT.	Relocate behind new GR
CMP 60	12+066	2.1 RT	12+066	6.0 RT.	Relocate behind new GR
NO NUMBERS	12+106	8.04 LT	-	-	Possible Set Deeper
CMP 59/OXT	12+109	5.0 RT	12+109	5.8 RT	Relocate
CMP 58S	12+123	8.20 LT	-	-	Possible Set Deeper
CMP 58/58.5	12+129	6.5 RT	12+129	6.3 RT	Relocate
CMP 57/OXT	12+182	8.0 RT	12+181	7.4 RT	Relocate
CMP56S	-	-	12+243	8.0 LT	New Stub Pole
CMP 56/OXT	12+252	11.4 RT	12+252	8.7 RT	Relocate
	-	-	12+290	9.7 RT	New Pole
CMP 55/OXT	12+331	10.2 RT	-	-	Remain
CMP 55S	-	-	12+333	8.0 LT	New Stub
CMP 545	-	-	12+372	6.5 RT	New Pole
CMP 55/5/OXT	12+407	7.4 LT	-	-	Remove Pole
CMP 54	12+408	7.9 LT	-	-	Remain
CMP 53	12+482	9.9 LT	12+476	8.0 LT	Relocate to for respanning
CMP 53.5	-	-	12+525	8.0 LT	Relocate to for respanning

OXT&T 53.5	12+515	10.91 LT	-	-	Eliminate
CMP 52	12+557	9.5 LT	-	-	Relocate to for respanning
OXT 53	12+558	9.42 LT	-	-	Eliminate
CMP 51	12+623	10.1 LT	-	-	Remain
OXT&T 52	12+624	9.98 LT	-	-	Eliminate
NO NUMBERS	12+654	11.61 RT	-	-	Remain
CMP 33	13+747	6.9 LT	-	-	Remain
					Sodom Road Rt.
CMP 32	13+930	11.7 RT	13+810	6.5 LT	Relocate
CMP 32.1	13+808	6.4 LT	13+830	11.7 RT	Relocate
CMP 31	13+878	7.8 LT	-	-	Remain
CMP 30	13+926	8.5 LT	-	-	Remain
CMP 30S	13+932	5.43 RT	13+933	7.0 RT	Relocate
CMP 29	13+971	9.6 LT	13+971	7.4 LT	Relocate to for respanning
CMP 28	14+027	8.8 LT	14+027	7.4 LT	Relocate to for respanning
CMP 27	14+077	7.8 LT	-	-	Remain
CMP 26.5			14+119	7.3 LT	New pole for respanning
CMP 26	14+165	6.7 LT	-	-	Remain
CMP 26S	14+171	5.4 RT	14+171	6.5 RT	Relocate
CMP 25.5	-	-	14+210	6.5 LT	New pole for respanning
CMP 25	14+255	7.4 LT	-	-	Remain
CMP 25.1	14+267	7.8 RT	-	-	Remain
CMP 24/OXT	14+331	6.1 LT	14+316	6.5 LT	Relocate to even spans
CMP 23	14+370	7.1 LT	-	-	Remain
CMP 17	14+610	7.8 LT	-	-	Remain
CMP 17S	14+612	9.7 RT	14+610	7.0 RT	Relocate
CMP 16	14+683	8.6 LT	-	-	Remain
CMP 16S	14+685	6.2 RT	-	-	Remain
CMP 15	14+730	15.0 LT	14+730	8.8 LT	Relocate
CMP 14	14+776	18.4 LT	14+776	6.5 LT	Relocate
CMP 14S	-	-	14+771	7.0 RT	New Stub
CMP 13.5	-	-	14+826	7.9 LT	Relocate to even spans

CMP 13	14+875	6.0 LT	14+875	6.5 LT	Relocate
CMP 13 S	14+875	7.0 LT	-	-	Remain
CMP 12 11	14+948	7.8 LT	14+942	6.5 LT	Relocate
CMP 1.1	14+980	7.38 RT			Eliminate
CMP 11	15+017	5.5 RT	15+017	6.4 RT	Relocate
CMP 10	15+063	5.2 RT	15+063	6.4 RT	Relocate
CMP 9	15+109	5.2 RT	15+109	6.4 RT	Relocate
CMP 8	15+154	6.4RT	15+162	6.4 RT	Relocate
CMP 7	15+204	9.4 RT	15+204	6.4 RT	Relocate
CMP 6	15+251	4.5 LT	15+251	6.8 LT	Relocate behind SW
CMP 5	15+289	4.9 LT	15+292	7.0 LT	Relocate behind SW
CMP 4	15+326	6.4 LT	-	-	Eliminate
CMP 2	15+368	8.7 RT	15+338	6.7 RT	Relocate to even spans
CMP 1	15+388	8.6 RT	15+386	6.4 RT	Relocate

***TBD = To be determined**

SUBSURFACE

Utility	Summary of Work	Estimated Working Days
Paris Utility District	Adjust 6 MH/ 4 Gate Valves to finish grade	To be done by Contractor
Buckfield Village Corporation	Adjust Gate Valves to finish grade	10

Paris Utility District has entered into an Agreement with the Maine Department of Transportation that the Contractor will adjust their manholes as needed within this contract and within specifications for Items 812.162, 812.164 and 823.332. **Paris Utility District** shall be notified as to when work this will take place so they may send an on-site representative for inspection purposes. Additional days may be required for repairs to any structures that are found to be broken or not operating properly. The contact for the **Paris Utility District** is John Barlow at 743-6251.

Buckfield Village Corporation will be advertising and constructing a water main project in the summer and fall of 2004. At the completion of the project the **Buckfield Village Corporation** will have structures that will need to be adjusted to final grade. The **Buckfield Village Corporation** will require 10 days working days to lower their respective structures before the reclaiming process. **Buckfield Village Corporation** will require 10 days working days notice to raise their structures to final grade before paving. The contact for the **Buckfield Village Corporation** is Lewis Williams at 966-2312.

UTILITY SIGNING

Any utility working within the construction limits of this project shall ensure that the traveling public is adequately protected at all times. All work areas shall be signed, lighted, and traffic flaggers employed as determined by field conditions. All traffic controls shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices for Streets and Highways, as issued by the Federal Highway Administration.

SAFE PRACTICES AROUND UTILITY FACILITIES

The Contractor shall be responsible for complying with M.R.S.A. Title 35-A, Chapter 7-A Sections 751 - 761 Overhead High-Voltage Line Safety Act. Prior to commencing any work that may come within ten (10) feet of any aerial electrical line; the Contractor shall notify the aerial utilities as per Section 757 of the above act.

DIG SAFE

The Contractor shall be responsible for determining the presence of underground utility facilities prior to commencing any excavation work and shall notify utilities of proposed excavation in accordance with M.R.S.A. Title 23 §3360-A, Maine "Dig Safe" System.

MAINTAINING UTILITY LOCATION MARKINGS

The Contractor will be responsible for maintaining the buried utility location markings following the initial locating by the appropriate utility or their designated representative.

THE CONTRACTOR SHALL PLAN AND CONDUCT HIS WORK ACCORDINGLY.

The following utilities are known to be located on this project:

Central Maine Power Company	Dennis Chadbourne	828-2860
	Russ White	623-7853 (ext. 2353)
Adelphia Communications Corp.	Forrest Peters	783-1941 (ext. 405)
Oxford Telephone Company	Micheal Ellingwood	336-9911 (ext. 441)
	Brent Hadley	462-2754
	Brad Wight (Location)	462-2135
Verizon	Marty Pease	797-1170
Buckfield Village Corporation	Lewis Williams	966-2312

Special Provision
Section 105
Control of Work
(limitation of operations)

All pavement areas that are disturbed in 2004 shall receive the base layer of HMA by November 15, 2004. Any disturbed areas that have not received the base layer by November 15, 2004 shall receive a minimum of 50 mm of temporary HMA prior to winter suspension. All materials and work associated with placing, maintaining, and removing temporary HMA shall be the sole responsibility of the contractor and no cost shall be incurred by the department.

Special Provision
Section 105
Control of Work
(In-stream work)

Dredge Material (See MDOT Standard Specifications § 101.2) is regulated as a Special Waste. Fifty cubic yards or less of Dredge Material Beneficially Used in the area adjacent to and draining into the dredged water body is exempt from Beneficial Use Permits. There are twenty stream related culvert replacements or extensions, on this 9.56 mile section or Route 117, which will result in Dredge Material generation. The Dredge Material quantity from each of the sites is expected to be less than 50 cubic yards (38 cubic meters). All Dredge Material will be Beneficially Used adjacent to the site where it is generated. The Contractor shall ensure that all Dredge Material is placed into the fill areas specified by MDOT. No more than fifty cubic yards (38 cubic meters) of Dredge Material may be excavated at any individual site without authorization from the Engineer.

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SPECIAL PROVISION
SECTION 105
General Scope of Work
(Environmental Requirements)

Note: This project has two separate instream work windows please see below for specified station and work window.

Instream Work shall not be allowed between the dates of 10/2 and 6/14.
(Instream work is allowed from **6/15 to 10/1**.)

Stream Name(s) with Station #s: **8+691, 9+891, 10+144, 10+963, 11+606, 11+720, and 13+490***
Special Conditions: **Instream work shall be conducted during low flows. All culverts shall be embedded into the stream substrate as directed by the Resident.**

Instream Work shall not be allowed between the dates of 10/2 and 7/14.
(Instream work is allowed from **7/15 to 10/1**.)

Stream Name(s) with Station #s: **1+424, 2+300, 3+258, 3+790, 3+902, 4+058, 4+609, 4+807, 8+584, 9+177, 10+416, 13+040, 14+186, 14+832***
Special Conditions: **Instream work shall be conducted during low flows. All culverts shall be embedded into the stream substrate as directed by the Resident**.

Instream work consists of any activity conducted below the normal high water mark.

During the instream work window restriction, all activities are prohibited (including placement and removal of cofferdams) below the normal high water mark and during high flow conditions, except for the following:

- Work within a sealed and dewatered cofferdam. Maintenance pumping within a sealed cofferdam is also allowed.

No construction activity, whether temporary or permanent, is allowed that completely blocks a river, stream, or brook without providing downstream flow.

The contractor shall abide by all permits and conditions.

*All stations are approximate.

SPECIAL PROVISION
SECTION 107
SCHEDULING OF WORK

Replace Section 107.4.2 with the following:

"107.4.2 Schedule of Work Required Within 21 Days of Contract Execution and before beginning any on-site activities, the Contractor shall provide the Department with its Schedule of Work. The Contractor shall plan the Work, including the activity of Subcontractors, vendors, and suppliers, such that all Work will be performed in Substantial Conformity with its Schedule of Work. The Schedule must include sufficient time for the Department to perform its functions as indicated in this Contract, including QA inspection and testing, approval of the Contractor's TCP, SEWPCP and QCP, and review of Working Drawings.

At a minimum, the Schedule of Work shall include a bar chart which shows the major Work activities, milestones, durations, and a timeline. Milestones to be included in the schedule include: (A) start of Work, (B) beginning and ending of planned Work suspensions, (C) Completion of Physical Work, and (D) Completion. If the Contractor Plans to Complete the Work before the specified Completion date, the Schedule shall so indicate.

Any restrictions that affect the Schedule of Work such as paving restrictions or In-Stream Work windows must be charted with the related activities to demonstrate that the Schedule of Work complies with the Contract.

The Department will review the Schedule of Work and provide comments to the Contractor within 20 days of receipt of the schedule. The Contractor will make the requested changes to the schedule and issue the finalized version to the Department."

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SPECIAL PROVISION
SECTION 107
Prosecution and Progress
(Contract Time)

1. **The contractor will be allowed to commence work anytime after all plans that are required under this contract have been submitted and approved.**

2. **The completion date for this project is November 19, 2005.**

3. **No work will be allowed from Station 14+500 - 15+400, until the spring of 2005, unless Town of Buckfield Water Main Contract has been completed, or other arrangements agreeable to Village Water Corporation's Contractor and the Resident are made.**

4. **For every workday not worked once operations commence, between April 15th and November 15th, the contractor will be charged liquidated damages per calendar day (excluding inclement weather days) at the rate stated in 107.7.2.**

5. **Unless otherwise authorized, this contract allows for only one paving operation (excluding hand work).**

6. **Any roadway areas disturbed in 2004 will receive 100mm of PM RAP and 45mm, of 12.5 mm base pavement prior to November 15, 2004.**

SPECIAL PROVISION
SECTION 108
RECYCLED ASPHALT PAVEMENT WITH BITUMINOUS ADDITIVE PERFORMANCE GRADED BINDER PRICE ADJUSTMENT

Price adjustments will be based on the variance in costs for the performance graded binder component of recycled asphalt pavement with bituminous additive. They will be determined as follows:

Performance Graded Asphalt Binder The quantity of asphalt cement will be determined by taking the quantity of recycled asphalt pavement with bituminous additive **(133,605 M^2)** and multiplying by **(0.0039 for item 310.24)** times the difference in price in excess of 5 percent between the base price and the period price of asphalt cement. Adjustments will be made upward or downward, as prices increase or decrease.

Recycled Asphalt Pavement with Bituminous Additive The quantity of recycled asphalt pavement with bituminous additive will be determined from field measurements and shown on the progress estimate for each pay period.

Base Price The base price of performance graded binder to be used is the price per standard ton current with the bid opening date. This price is determined by using the average N.E. Barge Price, FOB, as listed in the Asphalt Weekly Monitor.

Period Price The period price of performance graded binder will be determined by the Department by using the average N.E. Barge Price, FOB, listed in the Asphalt Weekly Monitor current with the pay period ending date of the progress estimate.

SPECIAL PROVISION
SECTION 310
PLANT MIXED RECYCLED ASPHALT PAVEMENT

310.01 Description This work shall consist of the removal of all bituminous pavement from the existing roadway, hauling the bituminous pavement to an approved location, and processing as per Section 310.020. The gravel base of the existing roadway shall be regarded and compacted to the tolerances shown on the typicals, or as directed by the Resident.

All plant mixed recycled asphalt pavement shall be placed in one or more courses on an approved base and in accordance with these specifications, and in reasonably close conformity with the lines, grades and thicknesses indicated on the plans, or as established by the Resident. Excess recycled material not used in the PMRAP process will become the property and responsibility of the contractor.

MATERIALS

310.020 Composition of Mixture The mixture shall be composed as directed in the job mix formula. The recycled asphalt pavement shall be processed by the Contractor so all material will be no larger than 37.5 mm [1.5 in] and stockpiled so as to minimize segregation. The stockpile shall be free of any materials not generally considered to be asphalt pavement. If additional material is required, the material will be supplied by the State or acquired from the Contractor through the Contract Modification process.

A job mix formula shall be furnished by the Department establishing the percentage of emulsified asphalt cement, Portland Cement, aggregate, and water to be used in the mixture. The JMF additive proportions will be verified by taking a second recycled material sample once the stockpiles have been constructed.

Emulsion, water, aggregate and Portland Cement shall be added in percentage by weight and verified by tank checks done in accordance with the minimum quality control frequencies. Cement additive may be done in dry form or introduced as a cement slurry.

310.021 Emulsified Asphalt The emulsified asphalt shall be grade MS-2, MS-4, CSS-1, or HFMS-2 meeting the requirements of Section 702.04 - Emulsified Asphalt.

310.022 Portland Cement Portland Cement shall be Type I or II meeting the requirements of AASHTO M85.

310.023 Water Water shall be clean and free from deleterious concentrations of acids, alkalis, salts or other organic or chemical substances.

310.024 New Aggregate New aggregate, if required by the contract or job mix, shall meet the requirements of Section 411.02 - Untreated Aggregate Surface Course.

EQUIPMENT

310.030 Mixing Plant The mixing plant shall be of sufficient capacity and coordinated to adequately handle the proposed construction. Either a continuous pugmill mixer or a continuous drum type mixing plant shall be used. If a

drum mixing plant is used it shall meet the requirements of Section 401.07. The mixing plant shall be capable of producing a uniform mixture meeting the requirements of the job mix formula.

310.031 Hauling Equipment Trucks used for hauling the mixture shall meet the requirements of Section 401.08.

310.032 Bituminous Pavers Pavers shall meet the requirements of Section 401.09.

310.033 Rollers Rollers shall meet the requirements of Section 401.10.

CONSTRUCTION REQUIREMENTS

310.040 Mixing The recycled asphalt pavement shall be delivered to the mixer at a temperature of not less than 10°C [50°F]. The emulsified asphalt shall meet the mixing temperature requirements listed in Section 702.05 - Application Temperatures. Recycled pavement and emulsified asphalt, and cement shall be proportioned and the mixing time set to produce a mixture in which uniform distribution of the emulsified asphalt and coating of the recycled pavement is obtained.

If a drum type mixing plant is used, the recycled asphalt pavement may be heated prior to being mixed with the emulsified asphalt to a temperature not to exceed 90°C [195°F].

Following mixing, the recycled asphalt pavement material shall be stockpiled and incorporated into the work. The material shall not be stockpiled for longer than 24 hours.

310.041 Weather Limitations The plant mixed recycled asphalt pavement shall be performed when:

a. PM-RAP operations will be allowed between May 15th and September 15th inclusive in Zone 1 - Areas north of US Route 2 from Gilead to Bangor and north of Route 9 from Bangor to Calais. PM-RAP will be allowed between May 1st and September 30th inclusive in Zone 2 - Areas south of Zone 1 including the US Route 2 and Route 9 boundaries.
b. The atmospheric temperature, as determined by an approved thermometer placed in the shade at the recycling location, is 10°C [50^{0}F] and rising.
c. When there is no standing water on the surface.
d. During generally dry conditions, or when weather conditions are such that proper pulverizing, adding, mixing, and curing can be obtained using proper procedures, and when compaction can be accomplished as determined by the Resident.
e. When the surface is not frozen and when overnight temperatures are expected to be above 0°C [32^{0}F].

310.042 Spreading and Finishing The mixture shall be spread and finished in accordance with Section 401.15. Total layer thickness greater than 100 mm [4 in] will be placed in 2 lifts.

310.043 Compaction Compaction of the mixture shall be in accordance with Section 401.16. Rolling may be delayed to avoid lateral displacement as directed by the Resident. See also Section 310.051.

310.044 Joints Joints shall be constructed in accordance with Section 401.17.

310.045 Surface Tolerances The surface tolerances shall be as specified in Section 401.101, except that the maximum allowable variation shall be 10 mm [? in]. The surface tolerance in existing gravel areas covered by PMRAP, with no additional gravel, shall be ± 10 mm [? in].

TESTING REQUIREMENTS

310.050 Quality Control The Contractor shall operate in accordance with the approved Quality Control Plan (QCP) to assure a product meeting the contract requirements. The QCP shall meet the requirements of Section 106.6 - Acceptance and this Section. The Contractor shall not begin recycling operations until the Department approves the QCP in writing.

Prior to performing any recycling process, the Department and the Contractor shall hold a Pre-recycle conference to discuss the recycling schedule, type and amount of equipment to be used, sequence of operations, and traffic control. A copy of the QC random numbers to be used on the project shall be provided to the Resident. All field and plant supervisors including the responsible onsite recycling process supervisor shall attend this meeting.

The QCP shall address any items that affect the quality of the Recycling Process including, but not limited to, the following:

a. JMF(s).
b. Mixing details, pugmill type, production rates, material processing.
c. Make and type of paver(s).
d. Make and type of rollers including weight, weight per inch of steel wheels, and average contact pressure for pneumatic tired rollers.
e. Testing Plan.
f. Transportation including process for ensuring that truck bodies are clean and free of debris or contamination that could adversely affect the finished product, type of release agent used (if required)
g. Laydown operations including procedures for mix design modification, avoiding recycling and curing in inclement weather, material yield monitoring, methods to ensure that segregation is minimized, longitudinal joint construction, procedures to determine the maximum rolling and placing speeds based on field quality control, and achieving the best possible smoothness.
h. Methods for protecting the finished product from damage and procedures for any necessary corrective action.
i. Method of grade checks.
j. Examples of Quality Control forms.
k. Name, responsibilities, and qualifications of the Responsible onsite Recycling Supervisor experienced and knowledgeable with the process.
l. Method for calibration/verification of density gauge.
m. A note that all testing will be done in accordance with AASHTO and MDOT/ACM procedures.
n. Stockpile procedures including method of moisture control.

The Project Superintendent shall be named in the QCP, and the responsibilities for successful implementation of the QCP shall be outlined.

The Contractor shall sample, test, and evaluate the PMRAP process in accordance with the following procedures and minimum frequencies:

MINIMUM QUALITY CONTROL FREQUENCIES

Test or Action	Frequency	Test Method
Density	1 per 300 m [1000 ft] / lane	ASTM D 2950
Air Temperature	4 per day at even intervals	
Surface Temperature	At the beginning and end of each days operation	
Yield of all materials (Both the daily yield and yield since last test)	4 per day at even intervals	

The Contractor shall submit all QC test reports and summaries in writing, signed by the appropriate technician, and present them to the Department's onsite representative by 1:00 P.M. on the next working day, except when otherwise noted in the QCP due to local restrictions. The Contractor shall make all test results, including randomly sampled densities, available to the Department onsite.

The Contractor shall cease recycling operations whenever one of the following occurs:

a. The computed yield differs from the approved Job Mix Formula by 10% or more.
b. The Contractor fails to follow the approved QCP.
c. The Contractor fails to achieve 98% density after corrective action has been taken.

Recycling operations shall not resume until the Contactor and the Department agree on the corrective action to be taken.

310.051 Test strip The contractor shall assemble all items of equipment for the recycling operation on the first day of the recycling work. The Contractor shall construct a test strip for the project at a location approved by the Resident. The test strip section is required to:

a. Demonstrate that the equipment and processes can produce recycled layers to meet the requirements specified in these special provisions;
b. Determine the effect on the grading of the recycled material by varying the forward speed of the paving machine; and;
c. Determine the sequence and manner of rolling necessary to obtain the compaction requirements and establish a target TMD. The Contractor and the Department will calibrate their respective gauges at this time.

The test strip shall be at least 100 m [300 ft] in length of a full lane-width (or a half-road width).

Full PMRAP production will not begin until an acceptable test strip has been constructed. If a test strip fails to meet the requirements of this specification, the Contractor will be required to repair or replace the test strip to the

satisfaction of the Resident. Any repairs, replacement, or duplication of the test strip will be at the Contractor's expense.

Quality Assurance density testing of the recycled material will be performed by the Department using the nuclear method. After the test strip has been placed, it will be rolled as directed until the nuclear density readings show an increase in density of less than 16 kg/m³ [1 pcf] for the final four roller passes. The test strip density will be used as the target density for the recycled material. The remaining PMRAP material shall be compacted to a minimum density of 98% of the target density as determined in the control section.

ACCEPTANCE TEST FREQUENCY

Property	Frequency	Test Method
In-place Density	1 per 600 m [2000 ft] / lane	ASTM D 2950

310.052 Repairs Repairs and maintenance for the PMRAP layers, during and after the curing period, resulting from damage caused by traffic, weather or environmental conditions, or caused by the Contractor's operations or equipment, shall be completed at no additional cost to the Department.

Low areas will be repaired using a hot mix asphalt shim course. Areas up to 25mm [1 in] high can be repaired by milling or shimming with hot mix asphalt. Areas higher than 25mm [1 in] will be repaired using a hot mix asphalt shim. All repair work will be done with the Resident's approval at the Contractor's expense.

310.06 Curing No new hot mix asphalt pavement or additional layers of PM-RAP shall be placed on the recycled asphalt pavement until a curing period of (4) four days has elapsed. The curing period starts once the PM-RAP has been placed in the roadway. When weather conditions are unfavorable, the curing period may be extended by the Resident.

310.07 Method of Measurement Plant Mixed Recycled Asphalt Pavement shall be measured by the square meter [square yard].

310.08 Basis of Payment The accepted quantity of Plant Mixed Recycled Asphalt Pavement will be paid for at the contract unit price per square meter [square yard], complete in-place which price will be full compensation for furnishing all equipment and labor for removing existing pavement, regrading and compacting existing gravel base, processing, mixing, testing, placing, and compacting, excess material relocation, and for all incidentals necessary to complete the work.

Payments will be made under:

Pay Item	Pay Unit
310.23 - 75mm [3 in] Plant Mixed Recycled Asphalt Pavement	Square Meter [yd^2]
310.24 - 100mm [4 in] Plant Mixed Recycled Asphalt Pavement	Square Meter [yd^2]
310.25 - 125mm [5 in] Plant Mixed Recycled Asphalt Pavement	Square Meter [yd^2]
310.26 - 150mm [6 in] Plant Mixed Recycled Asphalt Pavement	Square Meter [yd^2]

SPECIAL PROVISION
SECTION 310
PLANT MIX RECYCLED ASPHALT PAVEMENT
(PM RAP)

Mix Design

The PLANT MIX RECYCLED ASPHALT PAVEMENT on this project will be treated with the following material proportions:

EMULSION	3.50 %
Water	3.0% – 6.0 %
Portland cement (Type I or II)	1.50 %

The optimum moisture content for compaction shall be determined by the Department using samples obtained from the roadway, by means of AASHTO T 180, Method D.

A contract modification will be executed if percentages change from the requirements above for added asphalt, Portland cement or lime changes by more than 0.10%. Positive and negative price adjustments will be made. The price adjustment will be based upon receipted bills for materials delivered the project site. If a price adjustment is warranted, the contractor will supply the Department with all receipted bills for PG asphalt binder, Portland cement or lime for the entire project. Adjustments in water content exceeding the initial targets shall not be paid for directly, but shall be incidental.

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT OVERLAY

Desc. of Course	Grad. Design	Item Number	Bit Cont. % of Mix	Total Thick	No. Of Layers	Comp. Notes
			Main Line Traveled Way And Shoulders			
			Over Plant Mixed Recycled Asphalt Pavement			
Wearing	9.5 mm	403.210	N/A	30 mm	1	4,7
Base	12.5 mm	403.213	N/A	45 mm	1/more	4,7
			Plant Mixed Recycled Asphalt Pavement			
			Main Line Traveled Way And Shoulders			
Base	See Special Prov.	310.24	See Special Prov.	100 mm	1	Special Prov.
			Approach Roads			
Wearing	9.5mm	403.210	N/A	30 mm	1	4,7
Base	12.5mm	403.213	N/A	45mm	1/more	4,7
			Drives, Misc.			
Wearing	9.5mm	403.209	N/A	30mm	1/more	2,3,9,10,13

COMPLEMENTARY NOTES

2. The density requirements are waived.
3. The design traffic level for mix placed shall be <0.3 million ESALS.
4. The design traffic level for mix placed shall be 0.3 to <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations.**
7. Section 106.6 Acceptance, (1) Method A.
8. Section 106.6 Acceptance, (2) Method B.
9. Section 106.6 Acceptance, (2) Method C.
10. A **"FINE"** 9.5 mm mix with a gradation above or through the restricted zone shall be used for this item.
13. A mixture meeting the requirements of section 703.09 Grading 'D', with a minimum PGAB content of 6%, and the limits of Special Provision 401, Table 9 (Drives and Sidewalks) for PGAB content and gradation may be substituted for this item. A job mix formula shall be submitted to the department for approval.

Tack Coat

A tack coat of emulsified asphalt, RS-1 or HFMS-1, Item #409.15 shall be applied to any existing pavement at a rate of approximately 0.025 G/SY, and on milled pavement approximately 0.05G/SY, prior to placing a new course. **A fog coat of emulsified asphalt shall be applied between Plant Mixed Recycled Asphalt Pavement course and the Base course, at a rate not to exceed 0.08 L/SM. A fog coat of emulsified asphalt shall be applied between the Base course and the Surface course, at a rate not to exceed 0.08 L/SM.**

Tack used between new layers of pavement will be paid for at the contract unit price for Item 409.15 Bituminous Tack Coat.

SPECIAL PROVISION
SECTION 534
PRECAST STRUCTURAL CONCRETE
(Precast Structural Concrete Arches, Box Culverts)

534.10 Description The Contractor shall design, manufacture, furnish, and install elements, precast structural concrete structures, arches, or box culverts and associated wings, headwalls, and appurtenances, in accordance with the contract documents.

534.20 Materials Structural precast elements for the arch or box culvert and associated precast elements shall meet the requirements of the following Subsection:

Structural Precast Concrete Units	712.061

Grout, concrete patching material, and geotextiles shall be one of the products listed on the Department's list of prequalified materials, unless otherwise approved by the Department.

534.30 Design Requirements The Contractor shall design the precast structural concrete structure in accordance with the AASHTO Standard Specifications for Highway Bridges, current edition, by either the Load Factor Design (LFD) or Load and Resistance Factor Design (LRFD) method. The design live load shall be as follows: MS-22.5 (HS-25) for LFD method, *modified HL-93 Strength I for LRFD method. *(modify HL-93 by increasing all wheel loads by a factor of 1.25)

The Contractor shall submit design calculations and shop drawings for the precast structure to the Department for approval. A Registered Professional Engineer, licensed in accordance with State of Maine laws, shall sign and seal all design calculations and drawings. The Contractor shall submit a bridge rating on the Department's Standard Bridge Rating Summary Sheet with the design calculations. Drawings shall conform with Section 105.7 - Working Drawings.

The Contractor shall submit the following items for review by the Resident at least ten working days prior to production:

A) The name and location of the manufacturer.
B) Method of manufacture and material certificates.
C) Description of method of handling, storing, transporting, and erecting the members.
D) Shop Drawings with the following minimum details:

1) Fully dimensioned views showing the geometry of the members, including all projections, recesses, notches, openings, block outs, and keyways.
2) Details and bending schedules of reinforcing steel including the size, spacing, and location. Reinforcing provided under lifting devices shall be shown in detail.
3) Details and locations of all items to be embedded.
4) Total mass (weight) of each member.

534.40 Construction Requirements The applicable provisions of Subsection 535.10 - Methods and Equipment and Subsection 535.20 - Forms and Casting Beds shall be met.

Manufacture of Precast Units The internal dimensions shall not vary by more than 1 percent from the design dimensions or 38 mm [1 ½ in], whichever is less. The haunch dimensions shall not vary by more than 19 mm [¾ in] from the design dimension. The dimension of the legs shall not vary by more than 6 mm [¼ in] from the dimension shown on the approved shop drawings.

The slab and wall thickness shall not be less than the design thickness by more than 6 mm [¼ in]. A thickness greater than the design thickness shall not be cause for rejection.

Variations in laying lengths of two opposite surfaces shall not be more than 15 mm [? in] in any section, except where beveled ends for laying of curves are specified.

The under-run in length of any section shall not be more than 12 mm [½ in].

The cover of concrete over the outside circumferential reinforcement shall be 50 mm [2 in] minimum. The concrete cover over the inside reinforcement shall be 38 mm [1 ½ in] minimum. The clear distance of the end of circumferential wires shall not be less than 25 mm [1 in] or more than 50 mm [2 in] from the end of the sections. Reinforcement shall be single or multiple layers of welded wire fabric or a single layer of deformed billet steel bars.

Welded wire fabric shall meet the space requirements and contain sufficient longitudinal wires extending through the section to maintain the shape and position of the reinforcement. Longitudinal distribution reinforcement may be welded wire fabric or deformed billet steel bars which meet the spacing requirements. The ends of the longitudinal distribution reinforcement shall be not more than 75 mm [3 in] from the ends of the sections.

The inside circumferential reinforcing steel for the haunch radii or fillet shall be bent to match the radii or fillets of the forms.

Tension splices in the reinforcement will not be permitted. For splices other than tension splices, the overlap shall be a minimum of 300 mm [12 in] for welded wire fabric or billet steel bars. The spacing center to center of the circumferential wires in a wire fabric sheet shall be not less than 50 mm [2 in] or more than 100 mm [4 in]. For the wire fabric, the spacing center to center of the longitudinal wires shall not be more than 200 mm [8 in]. The spacing center to center of the longitudinal distribution steel for either line of reinforcing in the top slab shall be not more than 375 mm [15 in].

The members shall be free of fractures. The ends of the members shall be normal to the walls and centerline of the section, within the limits of variation provided, except where beveled ends are specified. The surfaces of the members shall be a smooth steel form or troweled surface finish, unless a form liner is specified. The ends and interior of the assembled structure shall make a continuous line of members with a smooth interior surface.

Defects which may cause rejection of precast units include the following:

1) Any discontinuity (crack or rock pocket etc.) of the concrete which could allow moisture to reach the reinforcing steel.
2) Rock pockets or honeycomb over 4000 mm² [6 in²] in area or over 25 mm [1 in] deep.
3) Edge or corner breakage exceeding 300 mm [12 in] in length or 25 mm [1 in] in depth.
4) Extensive fine hair cracks or checks.
5) Any other defect that clearly and substantially impacts the quality, durability, or maintainability of the structure as measured by accepted industry standards.

The Contractor shall store and transport members in a manner to prevent cracking or damage. The Contractor shall not place precast members in an upright position until a compressive strength of at least 30 MPa [4350 psi] is attained.

Installation of Precast Units The Contractor shall not ship precast members until sufficient strength has been attained to withstand shipping, handling and erection stresses without cracking, deformation, or spalling (but in no case less than 30 MPa [4350 psi].

The Contractor shall set precast members on 12 mm [½ in] neoprene pads during shipment to prevent damage to the section legs. The Contractor shall repair any damage to precast members resulting from shipping or handling by saw cutting a minimum of 12 mm [½ in] deep around the perimeter of the damaged area and placing a polymer-modified cementitious patching material.

When footings are required, the Contractor shall install the precast members on concrete footings that have reached a compressive strength of at least 20 MPa [2900 psi]. The Contractor shall construct the completed footing surface to the lines and grades shown on the plans. When checked with a 3 m [10 ft] straightedge, the surface shall not vary more than 6 mm [¼ in] in 3 meters [10 ft]. The footing keyway shall be filled with a non-shrink flowable cementitious grout with a design compressive strength of at least 35 MPa [5075 psi].

The Contractor shall fill holes that were cast in the units for handling, with either Portland cement mortar, or with precast plugs secured with Portland cement mortar or other approved adhesive. The Contractor shall completely fill the exterior face of joints between precast members with an approved material and cover with a minimum 300 mm [12 in] wide joint wrap. The surface shall be free of dirt and deleterious materials before applying the filler material and joint wrap. The Contractor shall install the external wrap in one continuous piece over each member joint, taking care to keep the joint wrap in place during backfilling. The Contractor shall seal the joints between the end unit and attached elements with a non-woven geotextile. The Contractor shall install and tighten the bolts fastening the connection plate(s) between the elements that are designed to be fastened together as designated by the manufacturer.

Final assembly shall be approved by the manufacturer's representative prior to backfilling. The Contractor shall backfill the structure in accordance with the manufacturer's instructions and the Contract documents. The Contractor shall uniformly distribute backfill material in

layers of not more than 200 mm [8 in] depth, loose measure, and thoroughly compact each layer using approved compactors before successive layers are placed. The Contractor shall compact gravel borrow backfill in accordance with Section 203.12 - Construction of Earth Embankment with Moisture and Density Control, except that the minimum required compaction shall be 95 percent of maximum density as determined by AASHTO T99, Method C or D. The Contractor shall place and compact backfill without disturbance or displacement of the wall units, keeping the fill at approximately the same elevation on both sides of the structure. Whenever a compaction test fails, the Contractor shall not place additional backfill over the area until the lift is re-compacted and a passing test achieved.

The Contractor shall use hand-operated compactors within 1.5 m [5 ft] of the precast structure as well as over the top until it is covered with at least 300 mm [12 in] of backfill. Equipment in excess of 11 Mg [12 ton] shall not use the structure until a minimum of 600 mm [24 in] of backfill cover is in place and compacted.

534.50 Method of Measurement The Department will measure Precast Structural Concrete Arch or Box Culvert for payment per Lump Sum each, complete in place and accepted.

534.60 Basis of Payment The Department will pay for the accepted quantity of Precast Structural Concrete Arch or Box Culvert at the Contract Lump Sum price, such payment being full compensation for all labor, equipment, materials, professional services, and incidentals for furnishing and installing the precast concrete elements and accessories. Falsework, reinforcing steel, jointing tape, grout, cast-in-place concrete fill or grout fill for anchorage of precast wings and/or other appurtenances is incidental to the Lump Sum pay item. Cast-in-place concrete, reinforcing steel in cast-in-place elements, excavation, backfill material, and membrane waterproofing will be measured and paid for separately under the provided Contract pay items. Pay adjustments for quality level will not be made for precast concrete.

Payment will be made under:

Pay Item		Pay Unit
534.70	Precast Structural Concrete Arch	Lump Sum
534.71	Precast Concrete Box Culvert	Lump Sum

SPECIAL PROVISION
SECTION 631
EQUIPMENT RENTAL
EQUIPMENT REQUIREMENTS

The following are added to Subsection 631.01, 631.02 and 631.08.

631.01 Description

This item is to be used in areas not accessible with other equipment and will only be used when authorized by the Resident.

631.02 General

Equipment	Description	Minimum Size
Mini-All Purpose Excavator	Track mounted	89 hp [66.1 kW]

Operating Weight	Bucket Range
27,100 lbs. [12,300 kg]	.5 -.98 Cu. Yd. [.38 - .75 Cu. M]

631.08 Basis of Payment

Payment will be made under:

Pay Item		Pay Unit
631. 122	Mini – All Purpose Excavator (including Operator)	Hour

February 27, 2003
Supersedes December 10, 2002

SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC

Approaches Approach signing shall include the following signs as a minimum. Field conditions may warrant the use of additional signs as determined by the Resident.

Road Work Next x Miles
Road Work 500 Feet
End Road Work

Work Area At each work site, signs and channelizing devices shall be used as directed by the Resident. Signs include:

Road Work xxxx[1]
One Lane Road Ahead
Flagger Sign

Other typical signs include:

Be Prepared to Stop
Low Shoulder
Bump
Pavement Ends

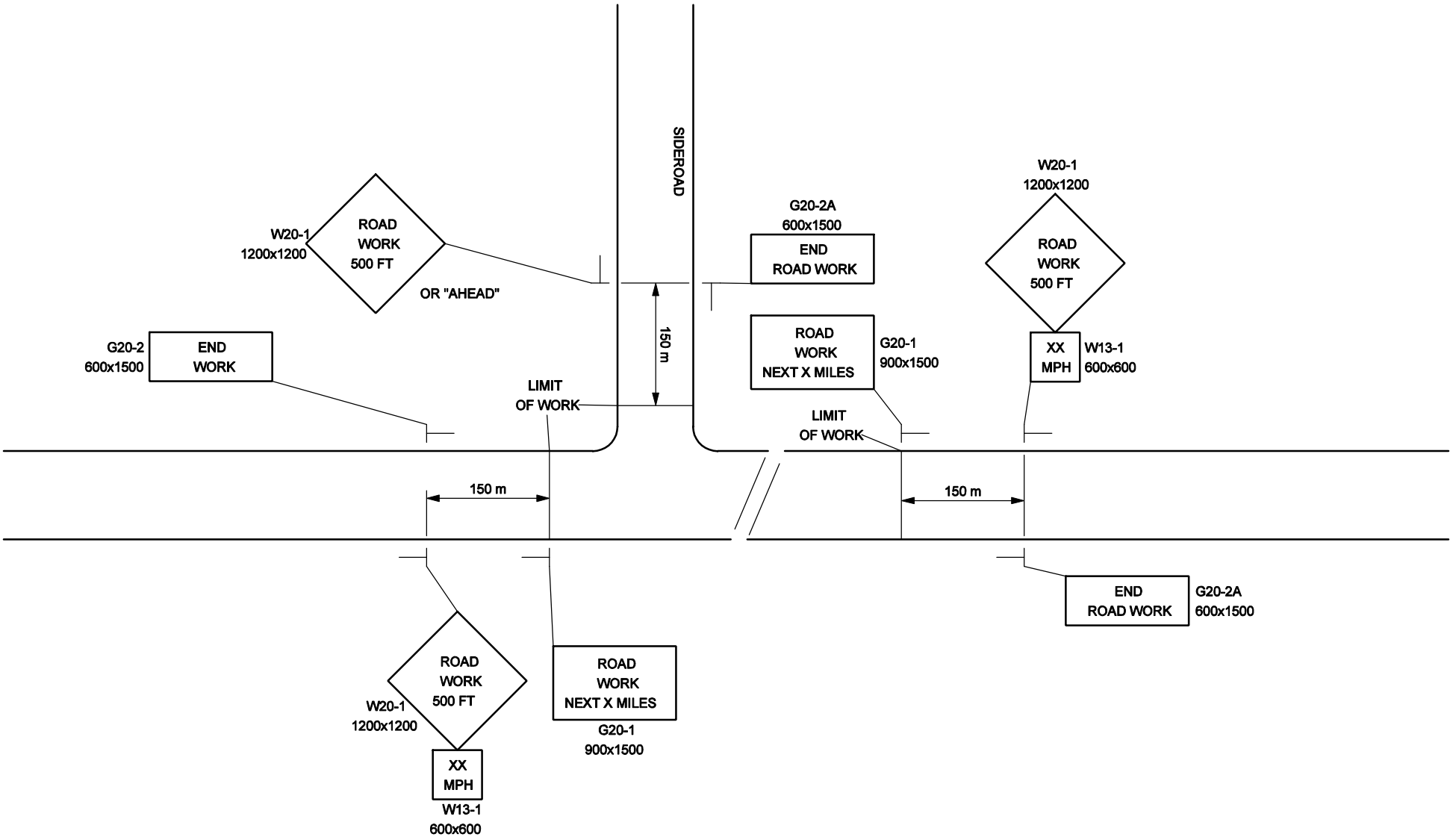
The above lists of Approach signs and Work Area signs are representative of the contract requirements. Other sign legends may be required.

The Contractor shall conduct their operations in such a manner that the roadway will not be restricted to one lane for more than 800 m [2,500 ft] at each work area. Where more than one work area restricts traffic to one lane operation, these work areas shall be separated by at least 1.6 km [1 mile] of two way operation.

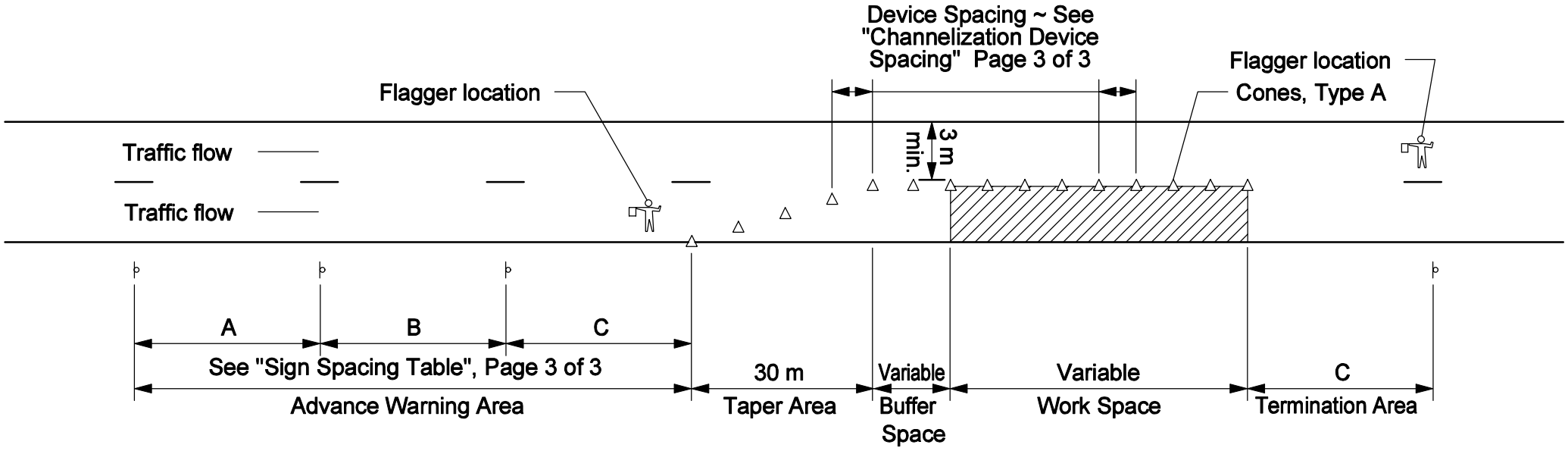
Temporary Centerline A temporary centerline shall be placed each day on all new pavement to be used by traffic. The temporary centerline, when specified of reflectorized traffic paint, shall conform to the standard marking patterns used for permanent markings.

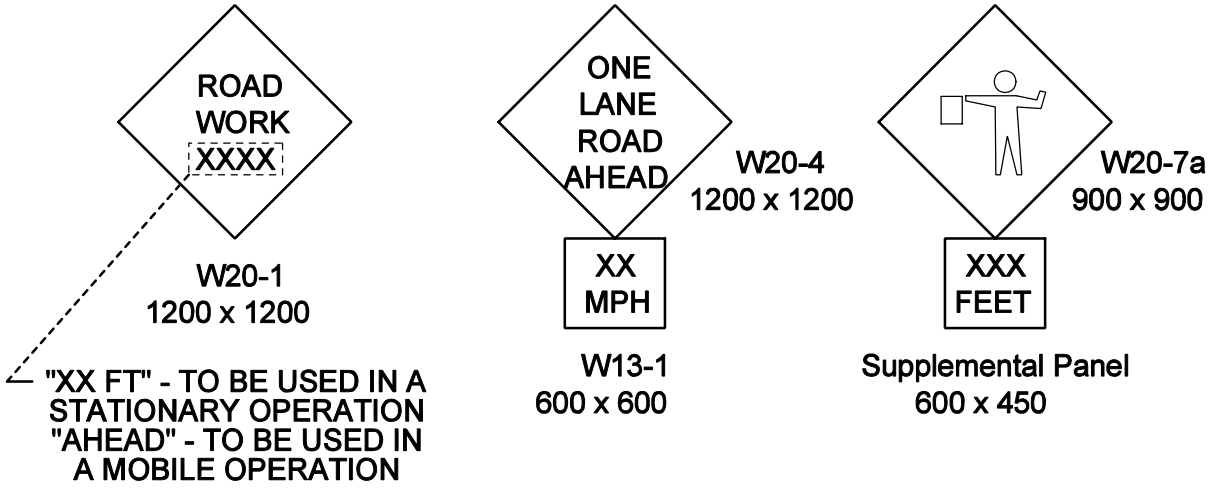
Failure to apply a temporary centerline daily will result in suspension of paving until temporary markers are applied to all previously placed pavement.

[1] "Road Work Ahead" to be used in mobile operations and "Road Work xx ft" to be used in stationary operations as directed by the Resident.



TYPICAL
-- PROJECT APPROACH SIGNING --
TWO WAY TRAFFIC





TYPICAL APPLICATION: TWO - WAY, TWO LANE ROADWAY, CLOSING ONE LANE USING FLAGGERS

TYPE OF TAPER	TAPER LENGTH (L)*
Merging Taper	at least L
Shifting Taper	at least 0.5L
Shoulder Taper	at least 0.33L
One-Lane, Two-Way Traffic Taper	100 ft (30 m) maximum
Downstream Taper	100 ft (30 m) per lane

* Formulas for L are as follows:

For speed limits of 40 mph (60 km/h) or less:

$L = \frac{WS^2}{60}$ $\quad (L = \frac{WS^2}{155})$

For speed limits of 45 mph (70 km/h) or greater:

$L = WS$ $\quad (L = \frac{WS}{1.6})$

* Formulas for L are as follows:

A minimum of 5 channelization devices shall be used in the taper.

CHANNELIZATION DEVICE SPACING

The spacing of channelization devices shall not exceed a distance equal to 1.0 times the speed limit in mph when used for taper channelization, and a distance in feet of 2.0 times the speed limit in mph when used for tangent channelization.

SIGN SPACING TABLE			
Road Type	Distance Between Signs**		
	A	B	C
Urban 30 mph (50 km/h) or less	100 (30)	100 (30)	100 (30)
Urban 35 mph (55 km/h) and greater	350 (100)	350 (100)	350 (100)
Rural	500 (150)	500 (150)	500 (150)
Expressway / Urban Parkway	2,640 (800)	1,500 (450)	1000 (300)

**Distances are shown in feet (meters).

GENERAL NOTES;

1. Final placement of signs and devices may be changed to fit field conditions as approved by the Resident.

SUGGESTED BUFFER ZONE LENGTHS

Speed (mph)	Length (feet)	Speed (mph)	Length (feet)
20	115	40	325
25	155	45	360
30	200	50	425
35	250	55	495

STP-1021(600)X
Paris-Buckfield
Rte 117
March 19, 2004

SPECIAL PROVISION
SECTION 656
Temporary Soil Erosion and Water Pollution Control

The following is added to Section 656 regarding Project Specific Information and Requirements. All references to the Maine Department of Transportation Best Management Practices for Erosion and Sediment Control (a.k.a. Best Management Practices manual or BMP Manual) are a reference to the latest revision of said manual. The "Table of Contents" of the latest version is dated "1/19/00" (available at http://www.state.me.us/mdot/mainhtml/bmp/bmpjan2000.pdf.) **Procedures specified shall be according to the BMP Manual unless stated otherwise.**

Any and all references to "bark mulch" or "composted bark mix" shall be a reference to "Erosion Control Mix" in accordance with *Standard Specification, Section 619 - Mulch.*

Project Specific Information and Requirements

The following information and requirements apply specifically to this Project. The temporary soil erosion and water pollution control measures associated with this work shall be addressed in the SEWPCP.

1. This project is in the **Stony Brook and West Branch Nezinscot River** watersheds, which are listed as a **CLASS B, and CLASS A** respectively, and is considered **SENSITIVE** in accordance with the BMP Manual. The Contractor's SEWPCP shall comply with Section II.B., Guidelines for Sensitive Waterbodies in the BMP Manual.
2. **Newly disturbed earth shall be mulched by the end of each workday. Mulch shall be maintained on a daily basis.**
3. The SEWPCP shall describe the location and method of temporary erosion and sediment control for existing and proposed catch basins, outlet areas and culvert inlets and outlets.
4. **Dust control shall be maintained in accordance with** *Standard Specification, Section 637 – Dust Control* **. All Dust Control procedures shall be included in the plan and be paid for as part of Pay Item 656.75.**
5. Permanent slope stabilization measures shall be applied within one week of the last soil disturbance. Permanent seeding shall be done in accordance with *Standard Specification, Section 618 - Seeding* unless the Contract states otherwise.
6. **Culvert inlet and outlet protection shall be installed within 48 hours of culvert installation, or prior to a storm event, whichever is sooner.**
7. **After November 1,** the Contractor shall use winter stabilization methods, such as Erosion Control Mix as specified in *Standard Specification, Section 619 - Mulch*. If required, spring procedures for permanent stabilization shall also be described in the plan. Use of this product for over-winter temporary erosion control will be incidental to the contract and be paid for as part of Pay Item 656.75.

SPECIAL PROVISION
SECTION 656
Temporary Soil Erosion and Water Pollution Control

8. All disturbed ditches shall be stabilized by the end of each workday. Stabilization shall be maintained on a daily basis. Erosion control blanket shall be installed in the bottoms of all ditches except where a stone lining is planned. Seed shall be applied prior to the placement of the blanket.
9. If check dams are used, they shall be constructed of stone in accordance with BMP Manual, Section 9. *Hay Bale Temporary Check Dams* **are not allowed**. Delete all reference to them in Section 9.
10. The Contractor's SEWPCP shall address in-stream work in accordance with *Special Provision 105-Environmental Requirements.*
11. Stream flow shall be maintained at all times.
12. A cofferdam sedimentation basin is required if cofferdams are used. The basin shall be located in an upland area where the water can settle and seep into the ground or be released slowly to the resource in a manner that will not cause erosion. The location of such a cofferdam sedimentation basin shall be addressed in the SEWPCP.

January 3, 2003

SPECIAL PROVISION
SECTION 812
SEWER MANHOLE

Description This work shall consist of the installation and adjustment of manholes as indicated in the Bid Book, Plans, or as directed by the Resident.

Sewer Manhole shall consist of removing an existing manhole and replacing with a new manhole in accordance with Section 604 - Manholes, Inlets, and Catch Basins.

Adjust Sewer Manhole to Grade shall consist of adjusting a manhole to the required final grade, including any lowering and any other adjustments that may be necessary prior to setting the final grade and in accordance with this Section and Section 604 - Manholes, Inlets, and Catch Basins.

Rebuild Sewer Manhole shall consist of rebuilding and adjusting a sewer manhole in accordance with this Section and Section 604 - Manholes, Inlets, and Catch Basins

Pay Item		Pay Unit
812.06	Sewer Manhole	Each
812.162	Adjust Sewer Manhole to Grade	Each
812.164	Rebuild Sewer Manhole	Each

January 3, 2003

SPECIAL PROVISION
SECTION 823
GATE VALVE BOXES

Description This work shall consist of the adjustment or installation of gate valve boxes as indicated in the Bid Book, Plans, or as directed by the Resident.

Gate Valve Box, Adjust to Grade shall consist of adjusting a gate valve box to the required final grade, including any lowering and any other adjustments that may be necessary prior to setting the final grade.

Gate Valve Box, Install Only shall consist of removing an existing gate valve box, installing a replacement gate valve box, and adjusting the replacement gate valve box as specified above.

Materials The municipality or utility company owning or operating the existing water main system will provide all replacement gate valve boxes necessary for the Gate Valve Box, Install Only item. Any gate valve boxes damaged by improper construction methods or handling by the Contractor, as determined by the Department, shall be replaced at the Contractor's expense.

Method of Measurement Gate Valve Box, Adjust to Grade and Gate Valve Box, Install Only will be measured by the unit each, complete and in place.

Basis of Payment Payment for Gate Valve Box, Adjust to Grade shall be full compensation for all equipment, labor, and incidental materials necessary to adjust a gate valve box as specified above.

Payment for Gate Valve Box, Install Only shall be full compensation for all equipment, labor, and incidental materials necessary to replace and adjust a gate valve box as specified above.

Pay Item		Pay Unit
823.011	Gate Valve Box, Install Only	Each
823.332	Gate Valve Box, Adjust to Grade	Each

Permits & Cultural Resources Unit

PIN #: 10216.00
Location: Paris-Buckfield
Permit Member:Laurie Rowe Photographs ☐ Database/Projex ☒ Package to ENV Coordinator: 5/24/04

☒ **Section 106 and Tribal Consultation**

Architectural Resources	MOA ☐	Applicable☒	Approved ☒
Archeological Resources	MOA ☐	Applicable☒	Approved ☒
Tribal Consultation	N/A ☐	Applicable☒	Approved ☒

☒ **4(f) and 6(f)**

Section 4(f)	N/A ☒	Applicable☐	Approved ☐
LAWCON 6(f)	N/A ☒	Applicable☐	Approved ☐

☒ **FEMA** N/A ☒ Applicable☐ Approved ☐

☒ **Maine Department of Environmental Protection (MDEP) Site Location of Development**
N/A ☒ Applicable ☐ Approved ☐

☒ **Local Zoning, Title 30-A, Section 4325-6**.
Is the project something other than the highway and bridge system, such as a maintenance lot, building/parking facility? Yes ☐ No ☒. If no, the project is exempt.
If yes, continue. Does the town in which the project is located have a comprehensive plan consistent with the Growth Management Program? Yes ☐ No ☐. If no, the project is exempt.
If yes, local zoning ordinances and/or permits are needed. Approved ☐

☒ **Maine Department of Inland Fisheries and Wildlife (MDIFW) Essential Habitat**

Eagle Nest	N/A ☒	Applicable ☐	Approved ☐
Piping Plover	N/A ☒	Applicable ☐	Approved ☐
Roseate Tern	N/A ☒	Applicable☐	Approved ☐

☒ **United States Fish and Wildlife Service (USFWS), Migratory Bird Act**
N/A ☒ Applicable ☐

☒ **Maine Department of Conservation/ Public Lands, Submerged Land Lease**
N/A ☒ Applicable ☐

☒ **Land Use Regulation Commission (LURC)** ☒ Not Applicable

No permit	☐	
Notice	☐	Approved ☐
Permit	☐	Approved ☐

☒ **Maine Department of Environmental Protection (MDEP), Natural Resource Protection Act**

No permit required	☐	
Exempt	☐	(Must use erosion and sediment control and not block fish passage.)
PBR	☒	Approved ☒
Tier 1	☐	Approved ☐
Tier 2	☐	Approved ☐
Tier 3	☐	Approved ☐

☒ **Army Corps of Engineers (ACOE), Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act.**

No permit required ☐	
Category 1-NR☐	Approved ☐
Category 2☒	Approved ☒
Category 3☐	Approved ☐

☒ **IN-WATER TIMING RESTRICTIONS:** 105 Special Provision ☒ n/a ☐

Dates instream work is allowed: 6/15 to 10/1 for streams at the following stations 8+691, 9+891, 10+144, 10+963, 11+606, 11+720, and 13+490

Dates instream work is allowed: 7/15 to 10/1 for the streams at the following stations 1+424, 2+300, 3+258, 3+790, 3+902, 4+058, 4+609, 4+807, 8+584, 9+177, 10+416, 13+040, 14+186, 14+832

☒ Special Provision 656, Erosion Control Plan
Boxes marked in red indicate items that are attached and need to be placed in the contract by the Project Manager.

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)

PERMIT BY RULE NOTIFICATION FORM

(For use with DEP Regulation, Chapter 305)

■ **MDOT PIN: 10216.00**

Name of Applicant: State of Maine Department of Transportation **Name of Contact:** David Gardner
Mailing Address: 16 Station State House **Town/City:** Augusta **State:** Me. **Zip Code:** 04330-0016
Daytime Telephone #: (207)-624-3100 **Name of Wetland, Water Body or Stream:** Unname

Detailed Directions to Site: Project is on Rte 117 and begins at Rte 26 extending easterly 19.01 miles to Upper St.

Town/City: Paris **Map #:** N/A **Lot #:** N/A **County:** Oxford

Description of Project: Highway overlay involving culvert, guardrail, slope and ditch maintenance and repairs. The project will be performed in accordance with erosion control measures conforming with the latest versions of the *State of Maine Department of Transportation Standard Specifications for Highways and Bridges* and the *Department of Transportation's Best Management Practices for Erosion and Sediment Control.*

Part of a larger project? ☐Yes ☒No

(**CHECK ONE**) This project... ☒ does ☐ does not ...involve work below mean low water.

I am filing notice of my intent to carry out work which meets the requirements for Permit By Rule (PBR) under DEP Regulation, Chapter 305. I have a copy of PBR Sections checked below. I have read and will comply with all of the standards.

☐Sec. (2) Soil Disturbance	☐Sec. (8) Shoreline stabilization	☐Sec. (14) Piers, Wharves & Pilings
☐Sec. (3) Intake Pipes	☐Sec. (9) Utility Crossing	☐Sec. (15) Public Boat Ramps
☐Sec. (4) Replacement of Structures	☐Sec. (10) Stream Crossing	☐Sec. (16) Coastal Sand Dune Projects
☐Sec. (5) REPEALED	☒Sec. (11) State Transport. Facilities	☐Sec. (17) Transfers/Permit Extension
☐Sec. (6) Movement of Rocks or Vegetation	☐Sec. (12) Restoration of Natural Areas	☐Sec. (18) Maintenance Dredging
☐Sec. (7) Outfall Pipes	☐Sec. (13) F&W Creation/Enhance/Water Quality Improvement	

I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules. I also understand that ***this permit is not valid until approved by the Department or 14 days after receipt by the Department, whichever is less.***

I have attached all of the following required submittals. **NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS:**

- ■ **A $50 (non-refundable) payment shall be done by internal billing.**
- ■ ***Attach* a U.S.G.S. topo map or Maine Atlas & Gazetteer map with the project site clearly marked.**
- ❑ ***Attach* photographs showing existing site conditions (unless not required under standards).**

Signature of Applicant: _____ **Date:** 06/05/02
John E. Dority, Chief Engineer

Keep the bottom copy as a record of permit. Send the form with attachments via certified mail to the Maine Dept. of Environmental Protection **at the appropriate regional office listed below**. The DEP will send a copy to the Town Office as evidence of the DEP's receipt of notification. No further authorization by DEP will be issued after receipt of notice. Permits are valid for two years. **Work carried out in violation of any standard is subject to enforcement action.**

AUGUSTA DEP STATE HOUSE STATION 17 AUGUSTA, ME 04333-0017 (207)287-2111 PORTLAND DEP 312 CANCO ROAD PORTLAND, ME 04103 (207)822-6300 BANGOR DEP 106 HOGAN ROAD BANGOR, ME 04401 (207)941-4570 PRESQUE ISLE DEP 1235 CENTRAL DRIVE PRESQUE ISLE, ME 04769 (207)764-0477

OFFICE USE ONLY		Ck.#	Staff		Staff	
PBR #	FP	Date	Acc. Date		Def. Date	After Photos

DEPARTMENT OF THE ARMY
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MASSACHUSETTS 01742-2751

REPLY TO ATTENTION OF

MAINE PROGRAMMATIC GENERAL PERMIT (PGP)
AUTHORIZATION LETTER AND SCREENING SUMMARY

OFFICE OF ENVIRONMENTAL SERVICES
MAINE DEPT. OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333

CORPS PERMIT # NAE-2004-837
CORPS PGP ID#
STATE ID# PBR

DESCRIPTION OF WORK:
Place fill below the ordinary high water line numerous unnamed streams and adjacent freshwater wetlands off Route 117 between Paris & Buckfield, Maine in order to reconstruct a 19.01 mile section of the roadway. Approximately 6567 s.f. (0.15 acres) of stream bottom and wetland will be impacted by the project.

PIN # 10216.00

LAT/LONG COORDINATES : 44.2240559° N 70.5136185° W **USGS QUAD:** OXFORD, ME

I. CORPS DETERMINATION:
Based on our review of the information you provided, we have determined that your project will have only minimal individual and cumulative impacts on waters and wetlands of the United States. Your work is therefore authorized by the U.S. Army Corps of Engineers under the enclosed Federal Permit, the Maine Programmatic General Permit (PGP).

You must perform the activity authorized herein in compliance with all the terms and conditions of the PGP [including any attached Additional Special Conditions and any conditions placed on the State 401 Water Quality Certification including any required mitigation]. Please review the enclosed PGP carefully, including the PGP conditions beginning on page 5, to familiarize yourself with its contents. You are responsible for complying with all of the PGP requirements; therefore you should be certain that whoever does the work fully understands all of the conditions. You may wish to discuss the conditions of this authorization with your contractor to ensure the contractor can accomplish the work in a manner that conforms to all requirements.

If you change the plans or construction methods for work within our jurisdiction, please contact us immediately to discuss modification of this authorization. This office must approve any changes before you undertake them.

Condition 36 of the PGP (page 12) provides one year for completion of work that has commenced or is under contract to commence prior to the expiration of the PGP on September 29, 2005. You will need to apply for reauthorization for any work within Corps jurisdiction that is not completed by September 29, 2006.

No work may be started unless and until all other required local, State and Federal licenses and permits have been obtained. **This includes but is not limited to a Flood Hazard Development Permit issued by the town if necessary.** Also, this permit requires you to notify us before beginning work and allow us to inspect the project. Hence, you must complete and return the attached Work Start Notification Form(s) to this office no later than 2 weeks before the anticipated starting date. (For projects requiring mitigation, be sure to include the MITIGATION WORK START FORM).

II. STATE ACTIONS: PENDING [X], ISSUED[ ], DENIED [ ] DATE

APPLICATION TYPE: PBR: X , TIER 1: , TIER 2 : , TIER 3: , LURC: DMR LEASE: NA:

III. FEDERAL ACTIONS:

JOINT PROCESSING MEETING: 4/29/04 LEVEL OF REVIEW: CATEGORY 1: X CATEGORY 2:

AUTHORITY: SEC 10 , 404 X 10/404 , 103

EXCLUSIONS: The exclusionary criteria identified in the general permit do not apply to this project.

ESSENTIAL FISH HABITAT (EFH): EFH PRESENT Y / N (CIRCLE ONE)
IF YES: Based on the terms and conditions of the PGP, which are intended to ensure that authorized projects cause no more than minimal environmental impacts, the Corps of Engineers has preliminary determined that this project will not cause more than minimal adverse effects to **EFH** identified under the Magnunson-Stevens Fisheries Conservation and Management Act.

FEDERAL RESOURCE AGENCY OBJECTIONS: EPA NO , USF&WS NO , NMFS NO

If you have any questions on this matter, please contact my staff at 207-623-8367 at our Manchester, Maine Project Office.

Jay L. Clement

JAY L. CLEMENT
SENIOR PROJECT MANAGER
MAINE PROJECT OFFICE

for Rodney A. Hume 5/7/04

FRANK J. DELGIUDICE DATE
ACTING CHIEF, PERMITS & ENFORCEMENT BRANCH
REGULATORY DIVISION

US Army Corps
of Engineers ®
New England District

ADDITIONAL CONDITIONS FOR
DEPARTMENT OF THE ARMY
PROGRAMMATIC GENERAL PERMIT
NO. NAE-2004-837

1. Adequate sedimentation and erosion control devices, such as geotextile silt fences or other devices capable of filtering the fines involved, shall be installed and properly maintained to minimize impacts during construction. These devices must be removed upon completion of work and stabilization of disturbed areas. The sediment collected by these devices must also be removed and placed upland, in a manner that will prevent its later erosion and transport to a waterway or wetland.

2. All exposed soils resulting from the construction will be promptly seeded and mulched in order to achieve vegetative stabilization.

3. The permittee shall assure that a copy of this permit is at the work site whenever work is being performed and that all personnel performing work at the site of the work authorized by this permit are fully aware of the terms and conditions of the permit. This permit, including its drawings and any appendices and other attachments, shall be made a part of any and all contracts and sub-contracts for work which affects areas of Corps of Engineers' jurisdiction at the site of the work authorized by this permit. This shall be done by including the entire permit in the specifications for the work. If the permit is issued after construction specifications but before receipt of bids or quotes, the entire permit shall be included as an addendum to the specifications. The term "entire permit" includes permit amendments. Although the permittee may assign various aspects of the work to different contractors or sub-contractors, all contractors and sub-contractors shall be obligated by contract to comply with all environmental protection provisions of the entire permit, and no contract or sub-contract shall require or allow unauthorized work in areas of Corps of Engineers jurisdiction.

4. Replacement culverts shall be installed with their inverts at or below existing stream bed grade so as to avoid “hanging” and associated impediments to fish passage.

5. Instream work shall occur from July 1 to October 1 within the Stony Brook watershed and in all perennial streams and from June 15 to October 1 within intermittent streams to protect fisheries and local water quality.

Chapter 305: PERMIT BY RULE Section 11
State Transportation Facilities

1. Introduction. A "permit by rule" or "PBR", when approved by the Department of Environmental Protection (DEP), is an approval for an activity that requires a permit under the Natural Resources Protection Act (NRPA). Only those activities described in this chapter may proceed under the PBR process. A PBR activity will not significantly affect the environment if carried out in accordance with this chapter, and generally has less of an impact on the environment than an activity requiring an individual permit. A PBR satisfies the Natural Resources Protection Act (NRPA) permit requirement and Water Quality Certification requirement.

If a proposed activity is not described in this chapter, or will not be conducted in accordance with the standards of this chapter, the applicant must obtain an individual permit prior to beginning the activity.

A. Location of activity. The location of an activity may affect whether an activity qualifies for PBR, and whether review by the Department of Inland Fisheries and Wildlife is required.

(1) Type of resource. For some types of activities, the availability of a PBR is affected by the type of natural resource in or adjacent to which the activity is proposed. For example, an applicant proposing an activity consisting of "Movement of rocks or vegetation" may receive a PBR only if the activity will take place in a great pond, river, stream or brook. Limitations concerning the location of activities are addressed in the "Applicability" provision in each section of this chapter.

(2) Essential habitat. Essential habitats include areas critical to the survival of threatened and endangered species such as the bald eagle, least tern, roseate tern, and piping plover. If the activity is located in essential habitat, such as near an eagle nesting site, a PBR is only available if the applicant obtains written approval from the Department of Inland Fisheries and Wildlife (IF&W). This approval from IF&W must be submitted to the DEP with the PBR notification form, and the applicant must follow any conditions stated in the IF&W approval.

NOTE: Maps showing areas of essential habitat are available from the Department of Inland Fisheries and Wildlife regional headquarters, municipal offices, the Land Use Regulation Commission (for unorganized territories) and DEP regional offices. If the activity is located in essential habitat, IF&W must be contacted to request and obtain a "certification of review and approval".

B. Notification. The applicant must file notice of the activity with the DEP prior to beginning work on the activity. The notification must be on a form provided by the DEP and must include any submissions required in this chapter. The applicant must keep a copy to serve as the permit.

The notification form must be sent to the DEP by certified mail (return receipt requested), or hand delivered to the DEP and date stamped by the department.

C. Effective period

(1) Beginning of period. The PBR becomes effective 14 calendar days after the DEP receives the notification form, unless the DEP approves or denies the PBR prior to that date. If the DEP does not speak with or write to the applicant within this 14 day period regarding the PBR notification, the applicant may proceed to carry out the activity.

There are three exceptions regarding the effective date of an approved PBR:

(a) Activities listed in Section 10 (Stream crossings) occurring in association with forest management are exempt from the 14 day waiting period.

(b) Activities listed in Section 2 (Soil disturbance) and Section 10 (Stream crossings) performed or supervised by individuals currently certified in erosion control practices by the DEP are exempt from the 14 day waiting period. To be certified in erosion control practices, an individual must successfully complete all course requirements of the Voluntary Contractor Certification Program administered by the DEP's Nonpoint Source Training and Resource Center.

(c) Activities that are part of a larger project requiring a permit under the Site Location of Development or the Storm Water Management Acts may not proceed until any required permit under those laws is obtained.

NOTE: Activities that are part of a larger project may require other permits from the DEP also. These other laws may prohibit the start of construction of any part of the project unless a permit under that law is obtained. In these cases, while not a violation of this rule, starting work on a PBR approved activity would be a violation of those other applicable laws.

(2) End of period. The PBR is generally effective for 2 years from the date of approval, except that a PBR for "Replacement of structures" under Section 4 is effective for 3 years.

NOTE: Activities that qualify under this chapter may need to meet other local, state and federal requirements. Examples -- (1) If an activity extends below the low water line of a lake, coastal wetland or international boundary water, the applicant should contact the Bureau of Parks and Lands (287-3061) concerning possible lease or easement requirements, or (2) If an activity will involve work below the mean high water line in navigable waters of the United States, the applicant should contact the Army Corps of Engineers (623-8367).

D. Discretionary authority. Notwithstanding compliance with the PBR applicability requirements and standards set forth in this chapter, the DEP may require an individual permit application to be filed in any case where credible evidence indicates that the activity:

(1) May violate the standards of the NRPA (38 M.R.S.A. Section 480-D);

(2) Could lead to significant environmental impacts, including cumulative impacts; or

(3) Could adversely impact a resource of special concern.

If an individual permit is required pursuant to this subsection, the DEP shall notify the applicant in writing within the 14 calendar day waiting period described in sub-section (C) above. When the DEP notifies an applicant than an individual permit is required, no work may be conducted unless and until the individual permit is obtained.

E. Violations. A violation of law occurs when a person, or his or her agent, performs or causes to be performed any activity subject to the NRPA without first obtaining a permit from the DEP, or acts contrary to the provisions of a permit. The person, his or her agent, or both, may be held

responsible for the violation. Commonly, the "person" is the landowner, and the "agent" is the contractor carrying out the activity. A violation occurs when:

(1) An activity occurs that is not allowed under PBR, whether or not a PBR notification form has been filed with and/or approved by the DEP;

(2) An activity occurs that is allowed under PBR, but a PBR for the activity has not become effective prior to the beginning of the activity; or

(3) An activity occurs that is allowed under PBR and a PBR for the activity is in effect, but the standards specified in this chapter are not met.

See the "applicability" provision under each activity for rules concerning what activities are allowed under PBR. A PBR is only valid for the person listed on the notification form, or for his or her agent.

Each day that a violation occurs or continues is considered a separate offense. Violations are subject to criminal penalties and civil penalties of not less than $100 nor more than $10,000 for each day of that violation (38 M.R.S.A. Section 349).

NOTE: A local Code Enforcement Officer (CEO) may take enforcement action for a violation of the Natural Resources Protection Act if he or she is authorized to represent a municipality in District Court, and he or she has been certified as familiar with court procedures, 30-A M.R.S.A. Section 4452(7).

Chapter 305 Section 11

State transportation facilities

A. Applicability

(1) This section applies to the maintenance, repair, reconstruction, rehabilitation, replacement or minor construction of a State Transportation Facility carried out by, or under the authority of, the Maine Department of Transportation or the Maine Turnpike Authority, including any testing or preconstruction engineering, and associated technical support services.

(2) This section does not apply to an activity within a coastal sand dune system.

NOTE: The construction of a transportation facility other than roads and associated facilities may be subject to the Storm Water Management Law, 38 M.R.S.A. Section 420-D.

B. Standards

(1) Photographs of the area to be altered by the activity must be taken before work on the site begins. The photographs must be kept on file and be made available at the request of the DEP.

(2) The activity must be reviewed by the Department of Inland Fisheries and Wildlife, the Department of Marine Resources, the Atlantic Salmon Authority, and the DEP's Division of Environmental Assessment prior to the notification being filed with the DEP. The activity must be performed according to any recommendations from these authorities.

(3) The activity must be performed in accordance with erosion control measures conforming with the State of Maine Department of Transportation Standard Specifications for Highways and Bridges Revision of April 1995 and with the Department of Transportation's Best Management Practices for Erosion and Sediment Control, September 1997.

NOTE: Guidance on the use of erosion control best management practices can be obtained from the on site Construction Manager.

(4) Alignment changes may not exceed a distance of 200 feet between the old and new center lines in any natural resource.

(5) The activity may not alter more than 300 feet of shoreline (both shores added together) within a mile stretch of any river, stream or brook, including any bridge width or length of culvert.

(6) The activity may not alter more than 150 feet of shoreline (both shores added together) within a mile stretch of any outstanding river segment identified in 38 M.R.S.A. 480-P, including any bridge width or length of culvert.

(7) The activity must minimize wetland intrusion. The activity is exempt from the provisions of Chapter 310, the Wetland Protection Rules, if the activity alters less than 15,000 square feet of natural resources per mile of roadway (centerline measurement) provided that the following impacts are not exceeded within the 15,000 square foot area:

(a) 1,000 square feet of coastal wetland consisting of salt tolerant vegetation or shellfish habitat; or

(b) 5,000 square feet of coastal wetland not containing salt tolerant vegetation or shellfish habitat; or

(c) 1,000 square feet of a great pond.

All other activities must be performed in compliance with all sections of Chapter 310, the Wetland Protection Rules, except 310.2(C), 5(A), 9(1), 9(B) and 9(C).

(8) The activity may not permanently block any fish passage in any watercourse containing fish. The applicant must improve passage beyond what restriction may already exist unless the Department of Inland Fisheries and Wildlife, the Department of Marine Resources, the Atlantic Salmon Authority and the DEP's Division of Environmental Assessment concur that the improvement is not necessary.

(9) Rocks may not be removed from below the normal high water line of any coastal wetland, freshwater wetland, great pond, river, stream or brook except to the minimum extent necessary for completion of work within the limits of construction.

(10) If work is performed in a river, stream or brook that is less than three feet deep at the time and location of the activity, with the exception of culvert installation, the applicant must divert flow away from the activity while work is in progress.

(a) Diversion may be accomplished by the use of stable, inert material. No more than two thirds (2/3) of stream width may be diverted at one time.

(b) Any material used to divert water flow must be completely removed upon completion of the activity, and the stream bottom must be restored to its original condition.

(c) A pump may be operated, where necessary, for a temporary diversion. The pump outlet must be located and operated such that erosion or the discharge of sediment to the water is prevented.

NOTE: Guidance on the appropriate location of a diversion and materials which should be used for a stream diversion can be obtained from the on site Construction Manager.

(11) Wheeled or tracked equipment may not operate in the water. Equipment operating on the shore may reach into the water with a bucket or similar extension. Equipment may cross streams on rock, gravel or ledge bottom.

(12) All wheeled or tracked equipment that must travel or work in a vegetated wetland area must travel and work on mats or platforms.

(13) Any debris or excavated material must be stockpiled either outside the wetland or on mats or platforms. Hay bales or silt fence must be used, where necessary, to prevent sedimentation. Any debris generated during the activity must be prevented from washing downstream and must be removed from the wetland or water body. Disposal of debris must be in conformance with the Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Section 1301 et seq.

(14) Work below the normal high water line of a great pond, river, stream or brook must be done at low water except for emergency work or work agreed to by the resource agencies listed in paragraph 2 above. Measures, such as a silt boom or staked fencing, must be employed to reduce and isolate turbidity.

(15) Perimeter controls must be installed before the work starts. Disturbance of natural resources beyond the construction limits shown on the plans is not allowed under this rule.

NOTE: Guidance on the location of construction limits can be obtained from the on site Construction Manager.

(16) The use of untreated lumber is preferred. Lumber pressure treated with chromated copper arsenate (CCA) may be used, provided it is cured on dry land in a manner that exposes all surfaces to the air for a period of at least 21 days prior to construction. Wood treated with creosote or pentachlorophenol may not be used where it will contact water.

(17) A temporary road for equipment access must be constructed of crushed stone, blasted ledge, or similar materials that will not cause sedimentation or restrict fish passage. Such roads must be completely removed at the completion of the activity. In addition, any such temporary roads which are in rivers, streams or brooks, must allow for a passage of stormwater flows associated with a 10-year storm.

(18) Soil may not be disturbed during any period when soils are saturated due to rain or snow melt, except as necessary to protect work in progress or as required for bridge maintenance activities. Areas where soils are saturated (i.e. water drips from the soil when squeezed by hand, or the soil is capable of being rolled into a rod 1/8th inch in diameter that does not crumble) must be immediately mulched if they are disturbed.

(19) Disturbed soil must be protected within one week from the time it was last actively worked, and prior to any storm event, using temporary or permanent measures such as the placement of riprap, sod, mulch, erosion control blankets, or other comparable measures.

(20) Hay bale or straw mulch, where used, must be applied at a rate of at least one bale per 500 square feet (1 to 2 tons per acre).

(21) If mulch is likely to be moved because of steep slopes or wind exposure, it must be anchored with netting, peg and twine, binder or other suitable method and must be maintained until a catch of vegetation is established over the entire disturbed area.

(22) In addition to the placement of riprap, sod, erosion control blankets or mulch, additional steps must be taken where necessary to prevent sedimentation of the water Evidence of sedimentation includes visible sheet, rill or gully erosion, discoloration of water by suspended particles and/or slumping of banks. Silt fences, staked hay bales and other sedimentation control measures, where planned for, must be in place prior to the commencement of an activity, but must also be installed whenever necessary to prevent erosion and sedimentation.

NOTE: Guidance on the location and proper installation of erosion control measures can be obtained from the on site Construction Manager.

(23) Temporary erosion control measures must be maintained and inspected weekly until the site is permanently stabilized with vegetation or other permanent control measures. Erosion control measures must also be inspected immediately prior to and following storms.

(24) Permanent erosion control measures protecting all disturbed areas must be implemented within 30 days from the time the areas were last actively worked, or for fall and winter activities by the following June 15, except where precluded by the type of activity (e.g. riprap, road surfaces, etc.). The permanent erosion control measures must be maintained.

(25) The applicant shall immediately take appropriate measures to prevent erosion or sedimentation from occurring or to correct any existing problems, regardless of the time of year.

(26) Non-native species may not be planted in restored areas.

(27) Disposal of debris must be in conformance with Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Sections 1301 et seq.

(28) Disturbance of vegetation must be avoided, if possible. Where vegetation is disturbed outside of the area covered by any road or structure construction, it must be reestablished immediately upon completion of the activity and must be maintained.

(29) A vegetated area at least 25 feet wide must be established and maintained between any new stormwater outfall structure and the high water line of any open water body. A velocity reducing structure must be constructed at the outlet of the stormwater outfall that will create sheet flow of stormwater, and prevent erosion of soil within the vegetated buffer. If the 25 foot vegetated buffer is not practicable, the applicant must explain the reason for a lesser setback in writing. Approval from the DEP must be in writing and any recommendations must be incorporated into the activity.

C. Definitions. The following terms, as used in this chapter, have the following meanings, unless the context indicates otherwise:

(1) Diversion. A rerouting of a river, stream or brook to a location outside of its established channel.

(2) Fill. a. (verb) To put into or upon, supply to, or allow to enter a water body or wetland any earth, rock, gravel, sand, silt, clay, peat, or debris; b. (noun) Material, other than structures, placed in or immediately adjacent to a wetland or water body.

(3) Floodplain wetlands. Freshwater wetlands that are inundated with flood water during a 100-year flood event based on flood insurance maps produced by the Federal Emergency Agency or other site specific information.

(4) Riprap. Rocks that are fit into place, usually without mortar, on a slope as defined in the State of Maine, Department of Transportation, Standard Specifications for Highway and Bridges, revision of April 1995.

Permit No: GP-39

Effective Date: Sept. 29, 2000
Expiration Date: Sept. 29, 2005

Applicant: General Public, State of Maine

DEPARTMENT OF THE ARMY
PROGRAMMATIC GENERAL PERMIT
STATE OF MAINE

The New England District of the U.S. Army Corps of Engineers hereby issues a programmatic general permit (PGP) that expedites review of minimal impact work in coastal and inland waters 1 and wetlands within the State of Maine. Activities with minimal impacts, as specified by the terms and conditions of this general permit and on the attached DEFINITION OF CATEGORIES sheets, are either non-reporting (provided required local and state permits are received), or are reporting, to be screened by the Corps and Federal Resource Agencies for applicability under the general permit. This general permit does not affect the Corps individual permit review process or activities exempt from Corps jurisdiction.

Activities Covered: work and structures that are located in, or that affect, navigable waters of the United States (regulated by the Corps under Section 10 of the Rivers and Harbors Act of 1899) and the discharge of dredged of fill material into waters of the United States (regulated by the Corps under Section 404 of the Clean Water Act), and the transportation of dredged material for the purpose of disposal in the ocean (regulated by the Corps under Section 103 of the Marine Protection, Research and Sanctuaries Act).

PROCEDURES:

A. **State Approvals**

For projects authorized pursuant to this general perrnit that are also regulated by the State of Maine, the following state approvals are also required and must be obtained in order for this general permit authorization to be valid (applicants are responsible for ensuring that all required state permits and approval have been obtained):

(a) Maine Department of Environmental Protection (DEP): Natural Resources Protection Act permit, including permit-by-rule and general permit authorizations; Site Location and Development Act permit; and Maine Waterway Development and Conservation Act.
(b) Maine Department of Conservation: Land Use Regulation Commission (LURC) permit.
(c) Maine Department of Marine Resources: Lease.
(d) Bureau of Public Lands, Submerged Lands: Lease.

Note that projects not regulated by the State of Maine (e.g., seasonal floats or moorings) may still be authorized by this general permit.

B. **Corps Authorizations: Category I (Non-Reporting)**

Work in Maine subject to Corps jurisdiction that meets the definition of Category I on the attached DEFINITION OF CATEGORIES sheets and that meets all of this permit's other conditions, does not require separate application to the Corps of Engineers. If the State or the Corps does not contact the applicant for PBRs and Tier One permits during the State's Tier One 30-day review period, Corps approval may be assumed and the project may proceed. Refer to the Procedures Section at Paragraph E below for additional information regarding screening.

Note that the review thresholds under Category I apply to single and complete projects i only (see special condition 5). **Also note that Category I does not apply to projects occurring in a component of, or within 0.25 miles up and downstream of the main stem or tributaries of a river segment of the National Wild and Scenic River System** (see condition 11, and page 9 for the listed rivers in Maine).

There are also restrictions on other national lands or concerns, which must be met in order for projects to be eligible for authorization under this PGP. Refer to special conditions 6-13 under Paragraph F below.

Work that is not regulated by the State of Maine, but that is subject to Corps jurisdiction, is eligible for Corps authorization under this PGP in accordance with the review thresholds and conditions contained herein.

Although Category I projects are non-reporting, the Corps reserves the right to require screening or an individual permit review if there are concerns for the aquatic environment or any other factor of the public interest (see special condition 4 on Discretionary Authority). The Corps review or State/Federal screening process may also result in project modification, mitigation or other special conditions necessary to minimize impacts and protect the aquatic environment as a requirement for PGP approval.

C. Corps Authorization: Category II (Reporting - requiring screening)
APPLICATION PROCEDURES

For projects that do not meet the terms of Category I (see DEFINITION OF CATEGORIES sheets), the Corps, State, and Federal Resource Agencies will conduct joint screening meetings to review applications. If projects are concurrently regulated by the DEP or LURC, applicants do not need to submit separate applications to the Corps. For projects not regulated by DEP or LURC, applicants must submit an application to the Corps Maine Project Office for a case-by-case determination of eligibility under this general permit (Category II). **Category II projects may not proceed until written notification is received from the Corps.**

Category II projects which occur in a component of, or within 0.25 mile up or downstream of the main stem or tributaries of a river segment of the National Wild and Scenic River System, will be coordinated with the National Park Service (see special condition 11, and page 9 for listed rivers in Maine).

There are also restrictions on other national lands or concerns, which must be met in order for projects to be eligible for authorization under this PGP. Refer to special conditions 6-14 under Paragraph E below.

Category II applicants shall submit a copy of their application materials to the Maine Historic Preservation Commission and/or applicable Indian tribe(s) at the same time, or before, they apply to the DEP, LURC, or the Corps so that the project can be reviewed for the presence of historic/archaeological resources in the project area that may be affected by the proposed work. **Applications to the DEP or the Corps should include information to indicate that this has been done (applicant's statement or copy of cover letter to Maine Historic Preservation Commission and/or Indian tribe(s)).**

The Corps may require additional information on a case-by-case basis as follows:

(a) purpose of project;

(b) 8 1/2" by l l " plan views of the entire property including property lines and project limits with existing and proposed conditions **(legible, reproducible plans required);**

(c) wetland delineation for the site, information on the basis of the delineation, and calculations of waterway and wetland impact areas (see special condition 2);

(d) typical cross-section views of all wetland and waterway fill areas and wetland replication areas;

(e) delineation of submerged aquatic vegetation, e.g., eel grass beds, in tidal waters;

(f) area, type and source of fill material to be discharged into waters and wetlands, including the volume of fill below ordinary high water in inland waters and below the high tide line in coastal waters;

(g) mean low, mean high water and high tide elevations in navigable waters;

(h) limits of any Federal navigation project in the vicinity and State Plane coordinates for the limits of the proposed work closest to the Federal project;

(i) on-site alternatives analysis (contact Corps for guidance);

(j) identify and describe potential impacts to Essential Fish Habitat (contact Corps for guidance);

(k) for dredging projects, include:
1) the volume of material and area in square feet to be dredged below mean high water,
2) existing and proposed water depths,
3) type of dredging equipment to be used,
4) nature of material (e.g., silty sand),

5) any existing sediment grain size and bulk sediment chemistry data for the proposed or any nearby projects,
6) information on the location and nature of municipal or industrial discharges and occurrences of any contaminant spills in or near the project area,
7) location of the disposal site (include locus sheet),
8) shellfish survey, and
9) sediment testing, including physical, chemical and biological testing. For projects proposing open water disposal, applicants are encouraged to contact the Corps as early as possible regarding sampling and testing protocols.

The Corps may request additional information. Dredging applicants may be required to conduct a shellfish and/or eel grass survey and sediment testing, including physical, chemical and biological testing. Sediment sampling and testing plans should be prepared or approved by the Corps before the samples are collected.

STATE-FEDERAL SCREENING PROCEDURES:

The Corps intends to utilize the application information required by the State for its regulatory program to the maximum extent practicable and the Corps normally will not be interacting with an applicant who is concurrently making application to the DEP or LURC. Projects not regulated by the State, but needing Corps of Engineers approval, **must apply directly to the Corps.** The joint screening meeting for Category II projects will occur regularly at the Corps or State of fices and will involve representatives from the DEP, the Corps, the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service.

The Corps and Federal Resource Agencies will classify the project within the State's review period, not to exceed 60 days, as: 1) approvable under the PGP as proposed; 2) needs additional information, including possible project modification, mitigation or other special conditions to minimize impacts; or 3) exceeds the terms or conditions of the PGP, including the minimal effects requirement, and an individual permit review will be required. In addition, the Corps retains the ability to exercise its discretionary authority and require an individual permit, irrespective of whether the terms and conditions of this general permit are met, based on concerns for the aquatic environment or any factor of the public interest (see special condition 4 on Discretionary Authority). All Category II projects must receive written approval from the Corps before work can proceed. If the project is not approvable as proposed, the DEP, LURC, or the Corps will contact the applicant to discuss the concerns raised. If the applicant is unable to resolve the concerns, the Corps, independently or at the request of the Federal Resource Agencies, will require an individual permit for the project. The applicant will be notified of this in writing, along with information about submitting the necessary application materials. The comments from the Federal Resource Agencies to the Corps may be verbal initially, and must be made within 10 working days of the screening meeting. These comments must be confirmed in writing within 10 calendar days of the verbal response if the Resource Agency(ies) will request an individual permit. The Federal Resource Agency's comments must reflect a concern within their area of expertise, state the species or resources that could be impacted by the project, and describe the impacts that either individually or cumulatively will be more than minimal.

MINERALS MANAGEMENT SERVICE (MMS) REVIEW

For Category II projects which involve construction of solid fill structures or discharge of fills along the coast which may extend the coastline or baseline from which the territorial sea is measured, coordination between the Corps and Minerals Management Service (MMS), Continental Shelf (OCS) Survey Group, will be needed (pursuant to the Submerged Lands Act, 43 U.S.C., Section 1301-1315, 33 CFR 320.4(f). During the screening period, the Corps will forward project information to MMS for their review. MMS will coordinate their determination with the Department of the Interior (DOI) Solicitor's Office. The DOI will have 15 calendar days from the date MMS is in receipt of project information to determine if the baseline will be affected. No notification to the Corps within 15 day review period will constitute a "no affect" determination. Otherwise, the solicitor's notification to the Corps may be verbal but must be followed with a written confirmation within 10 business days from the date of the verbal notification. This procedure will be eliminated if the State of Maine provides a written waiver of interest in any increase in submerged lands caused by a change in the baseline resulting from solid fill structure or fills authorized under this general permit.

D. Corps Authorization: Category III (Individual Permit)

Work that is in the INDIVIDUAL PERMIT category on the attached DEFINITION OF CATEGORIES sheets, or that does not meet the terms and conditions of this general permit, will require an application for an individual permit from the Corps of Engineers (see 33 CFR Part 325.1). The screening procedures outlined above will only serve to delay project review in such cases. The applicant should submit the appropriate application materials (including the Corps application form) at the earliest possible date. General information and application forms can be obtained at (207) 623-8367 (Maine Field Office), (800) 343-4789, or (800) 362-4367 in Massachusetts. Individual water quality certification and coastal zone management consistency concurrence will be required from the State of Maine before Corps permit issuance.

E. Programmatic General Permit Conditions:

The following conditions apply to activities authorized under the PGP, including all Category I (non-reporting) and Category II (reporting - requiring screening) activities:

GENERAL REQUIREMENTS:

1. **Other Permits.** Authorization under this general permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

2. **Applicability of this general permit shall be evaluated with reference to Federal jurisdictional boundaries.** Applicants are responsible for ensuring that the boundaries used satisfy the federal criteria defined at 33 CFR 328-329.

3. **Minimal Effects.** Projects authorized by this general permit shall have minimal individual and cumulative adverse environmental impacts as determined by the Corps.

4. **Discretionary Authority.** Notwithstanding compliance with the terms and conditions of this permit, the Corps of Engineers retains discretionary authority to require review for an individual permit based on concerns for the aquatic environment or for any other factor of the public interest. This authority is invoked on a case-by-case basis whenever the Corps determines that the potential consequences of the proposal warrant individual review based on the concerns stated above. This authority may be invoked for projects with cumulative environmental impacts that are more than minimal or if there is a special resource or concern associated with a particular project that is not already covered by the remaining conditions of the PGP and that warrants greater review.

Whenever the Corps notifies an applicant that an individual permit may be required, authorization under this general permit is void and no work may be conducted until the individual Corps permit is obtained or until the Corps notifies the applicant that further review has demonstrated that the work may proceed under this general permit.

5. **Single and Complete Projects.** This general permit shall not be used for piecemeal work and shall be applied to single and complete projects. All components of a single project and/or all planned phases of multi-phased projects shall be treated together as constituting one single and complete project (e.g., subdivisions should include all work such as roads, utilities, and lot development). This general permit shall not be used for any activity that is part of an overall project for which an individual permit is required.

NATIONAL CONCERNS:

6. St. **John/St. Croix Rivers.** This covers work within the Saint John and Saint Croix River basins that requires approval of the International Joint Commission. This includes any temporary or permanent use, obstruction or diversion of international boundary waters which could affect the natural flow or levels of waters on the Canadian side of the line, as well as any construction or maintenance of remedial works, protective works, dams, or other obstructions in waters downstream from boundary waters when the activity could raise the natural level of water on the Canadian side of the boundary.

7. **Historic Properties.** Any activity authorized by this general permit shall comply with Section 106 of the National Historic Preservation Act. Information on the location and existence of historic resources can be obtained from the Maine Historic Preservation Commission and the National Register of Historic Places. Federally recognized tribes (Penobscots, Passamaquoddys, Micmacs, and Maliseets) may know of the existence of other sites that may be of significance to their tribes. See page 14 for historic properties contacts.

Applicants with projects which will undergo the screening process (Category II) shall submit a copy of their application materials, with the name and address of the applicant clearly indicated, to the Maine Historic Preservation Commission, 55 Capitol Street, State House Station 65, Augusta, Maine 04333, and to the applicable tribe(s) to be reviewed for the presence of historic and/or archaeological resources in the permit area that may be affected by the proposed work. The Corps will then be notified by the Commission and/or

Tribe within 10 days if there are State and/or tribal concerns that the proposed work will have an effect on historic resources. The applicant should include with their application to the State or the Corps either a copy of their cover letter or a statement of having sent their application material to the Commission and Tribe(s).

If the permittee, either prior to construction or during construction of the work authorized herein, encounters a previously unidentified archaeological or other cultural resource, within the area subject to Department of the Army jurisdiction, that might be eligible for listing in the National Register of Historic Places, he/she shall stop work and immediately notify the District Engineer and the Maine Historic Preservation Commission and/or applicable Tribe(s).

8. **National Lands.** Activities authorized by this general permit shall not impinge upon the value of any National Wildlife Refuge, National Forest, or any area administered by the National Park Service.

9. **Endangered Species.** No activity is authorized under this general permit which
- may affect a threatened or endangered species or a species proposed for such designation as identified under the Federal Endangered Species Act (ESA),
- is likely to destroy or adversely modify the critical habitat or proposed critical habitat of such species,
- would result in a 'take' of any threatened or endangered species of fish or wildlife, or
- would result in any other violation of Section 9 of the ESA protecting threatened or endangered species of plants.

Applicants shall notify the Corps if any listed species or critical habitat, or proposed species or critical habitat, is in the vicinity of the project and shall not begin work until notified by the District Engineer that the requirements of the Endangered Species Act have been satisfied and that the activity is authorized. Information on the location of threatened and endangered species and their critical habitat can be obtained from the U.S. Fish and Wildlife Service and National Marine Fisheries Service (addresses attached, page 14).

10. **Essential Fish Habitat.** As part of the PGP screening process, the Corps will coordinate with the National Marine Fisheries Service (NMFS) in accordance with the 1996 amendments to the Magnuson-Stevens Fishery and Conservation Management Act to protect and conserve the habitat of marine, estuarine and anadromous finfish, mollusks, and crustaceans. This habitat is termed "essential fish habitat (EFH)", and is broadly defined to include "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." Applicants may be required to describe and identify potential impacts to EFH based upon the location of the proj ect, the activity proposed, and the species present. Conservation recommendations made by NMFS will normally be included as a permit requirement by the Corps. Information on the location of EFH can be obtained from the NMFS regulations (50 CFR Part 600) (address listed on page 14) and on their web site (http://www.nero.nmfs.gov/ro/doc/webintro.html).

The EFH designation for Atlantic salmon includes all aquatic habitats in the watershed of the following rivers and streams, including all tributaries to the extent that they are currently or were historically accessible for salmon migration:

St. Croix River	PleasantRiver	UnionRiver
Boyden River	Narraguagus River	Ducktrap River
Dennys River	Tunk Stream	Sheepscot River
Hobart Stream	Patten Stream	Kennebec River
Aroostook River	Orland River	Androscoggin River
East Machias River	Penobscot River	Presumpscot River
Machias River	Passagassawaukeag River	Saco River

11. **Wild and Scenic Rivers.** Any activity that occurs in a component of, or within 0.25 mile up or downstream of the main stem or tributaries of a river segment of the National Wild and Scenic River System, **must be reviewed by the Corps under the procedures of Category II of this general permit regardless of size of impact.** This condition applies to both designated wild and scenic rivers and rivers designated by Congress as study rivers for possible inclusion while such rivers are in an official study status. The Corps will consult with the National Park Service (NPS) with regard to potential impacts of the proposed work on the resource values of the Wild and Scenic River. The culmination of this coordination will be a determination by the NPS and the Corps that the work: (1) may proceed as proposed; (2) may proceed with recommended conditions; or (3) could pose a direct and adverse effect on the resource values of the river and an individual permit is required. If pre-application consultation between the applicant and the NPS has occurred whereby the NPS has made a determination that the proposed project is appropriate for authorization under this PGP (with respect to wild and scenic river issues), this determination should be furnished to the Corps with submission of the application. The address of the NPS can be found on Page 14 of this permit. *National Wild/Scenic Rivers System (Designated River in Maine) as of 5/2/00:* Allagash River beginning at Telos Dam continuing to Allagash checkpoint at Eliza Hole Rapids, approximately 3 miles upstream of the confluence with the St. John River. Length = 92 miles

12. **Federal Navigation Project.** Any structure or work that extends closer to the horizontal limits of any Corps navigation project than a distance of three times the project's authorized depth (see attached map following page 16 for locations of these projects) shall be subject to removal at the owner's expense prior to any future Corps dredging or the performance of periodic hydrographic surveys.

13. **Navigation.** There shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein and no attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the activity authorized herein.

The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure

or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

14. **Federal Liability.** In issuing this permit, the Federal Government does not assume any liability for the following: (a) damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes; (b) damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest; (c) damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit; (d) design or construction deficiencies associated with the permitted work; (e) damage claims associated with any future modification, suspension, or revocation of this permit.

MINIMIZATION OF ENVIRONMENTAL IMPACTS:

15. **Minimization.** Discharges of dredged or fill material into waters of the United States shall be avoided and minimized to the maximum extent practicable, regardless of review category.

16. **Work in Wetlands.** Heavy equipment working in wetlands shall be avoided if possible, **and if required, shall be placed on mats or other measures taken** to minimize soil and vegetation disturbance. Disturbed areas in wetlands shall be restored to preconstruction contours and conditions upon completion of the work.

17. **Temporary Fill.** Temporary fill in waters and wetlands authorized by this general permit (e.g., access roads, cofferdams) shall be properly stabilized during use to prevent erosion. Temporary fill in wetlands shall be placed on geotextile fabric laid on existing wetland grade. Temporary fills shall be disposed of at an upland site, suitably contained to prevent erosion and transport to a waterway or wetland. Temporary fill areas shall be restored to their approximate original contours but not higher. No temporary fill shall be placed in waters or wetlands unless specifically authorized by the Corps.

18. **Sedimentation and Erosion Control.** Adequate sedimentation and erosion control management measures, practices and devices, such as phased construction, vegetated filter strips, geotextile silt fences or other devices, shall be installed and properly maintained to reduce erosion and retain sediment on-site during and after construction. They shall be capable of preventing erosion, of collecting sediment, suspended and floating materials, and of filtering fine sediment. These devices shall be removed upon completion of work and the disturbed areas shall be stabilized. The sediment collected by these devices shall be removed and placed at an upland location in a manner that will prevent its later erosion into a waterway or wetland. All exposed soil and other fills shall be permanently stabilized at the earliest practicable date.

19. **Waterway Crossings.**

(a) All temporary and permanent crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed to withstand and to prevent the restriction of high flows, to maintain existing low flows, and to not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
(b) Temporary bridges, culverts, or cofferdams shall be used for equipment access across streams (NOTE: areas of fill and/or cofferdams must be included in total waterway/wetlands impacts to determine applicability of this general permit).
(c) For projects that otherwise meet the terms of Category I, instream construction work shall be conducted during the low flow period July 15 - October 1 in any year. Projects that are not to be conducted during that time period are ineligible for Category I and shall be screened pursuant to Category II, regardless of the waterway and wetland fill and/or impact area.

20. **Discharge of Pollutants.** All activities involving any discharge of pollutants into waters of the United States authorized under this general permit shall be consistent with applicable water quality standards, effluent limitations, standards of performance, prohibitions, and pretreatment standards and management practices established pursuant to the Clean Water Act (33 U.S.C. 1251) and applicable state and local laws. If applicable water quality standards, limitations, etc., are revised or modified during the term of this permit, the authorized work shall be modified to conform with these standards within six months of the effective date of such revision or modification, or within a longer period of time deemed reasonable by the District Engineer in consultation with the Regional Administrator of the Environmental Protection Agency. Applicants may presume that state water quality standards are met with issuance of the 401 Water Quality Certification.

21. **Spawning Areas.** Discharges into known 1) fish and shellfish spawning or nursery areas; and 2) amphibian and waterfowl breeding areas, during spawning or breeding seasons shall be avoided, and impacts to these areas shall be avoided or minimized to the maximum extent practicable during all times of year.

22. **Storage of Seasonal Structures.** Coastal structures such as pier sections and floats that are removed from the waterway for a portion of the year shall be stored in an upland location located above mean high water and not in tidal marsh.

23. **Environmental Values.** The permittee shall make every reasonable effort to carry out the construction or operation of the work authorized herein in a manner so as to maintain as much as is practicable, and to minimize any adverse impacts on, existing fish and wildlife and natural environmental values.

24. **Protection of Vernal Pools.** Impacts to uplands in proximity (within 500 feet) to the vernal pools referenced in DEFINITIONS OF CATEGORIES shall be minimized to the maximum extent possible.

PROCEDURAL CONDITIONS:

25. **Cranberry Development Projects.** For Cranberry development projects authorized under the PGP, the following conditions apply:

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1. If a.cranberry bog is abandoned for any reason, the area must be allowed to convert to natural wetlands unless an individual permit is obtained from the Corps of Engineers allowing the discharge of fill for an alternate use.
2. No stream diversion shall be allowed under this permit.
3. No impoundment of perennial streams shall be allowed under this permit.
4. The project shall be designed and constructed to not cause flood damage on adjacent properties.

26. **Inspections.** The permittee shall permit the District Engineer or his authorized representative(s) to make periodic inspections at any time deemed necessary in order to ensure that the work is being performed in accordance with the terms and conditions of this permit. The District Engineer may also require post-construction engineering drawings for completed work, and post-dredging survey drawings for any dredging work. **To facilitate these inspections, the attached work notification form should be filled out and returned to the Corps for all Category II projects.**

27. Maintenance. The permittee shall maintain the work or structures authorized herein in good condition, including maintenance, to ensure public safety. Dredging projects: note that this does not include maintenance of dredging projects. Maintenance dredging is subject to the review thresholds described on the attached DEFINITION OF CATEGORIES sheets and/or any conditions included in a written Corps authorization.

28. **Property Rights.** This permit does not convey any property rights, either in real estate or material, or any exclusive privileges, nor does it authorize any injury to property or invasion of rights or any infringement of federal, state, or local laws or regulations. If **property associated with work authorized by the PGP is sold, the PGP authorization is automatically transferred to the new property owner. The new property owner should provide this information to the Corps in writing. No acknowledgement from the Corps is necessary.**

29. **Modification, Suspension, and Revocation.** This permit may be either modified, suspended, or revoked, in whole or in part, pursuant to the policies and procedures of 33 CFR 325.7 and any such action shall not be the basis for any claim for damages against the United States.

30. **Restoration.** The permittee, upon receipt of a notice of revocation of authorization under this permit, shall restore the wetland or waterway to its former condition without expense to the United States and as directed by the Secretary of the Army or his authorized representative. If the permittee fails to comply with such a directive, the Secretary or his designee may restore the wetland or waterway to its former condition, by contract or otherwise, and recover the cost from the permittee.

31. **Special Conditions.** The Corps, independently or at the request of the Federal Resource Agencies, may impose other special conditions on a project authorized pursuant to this general permit that are determined necessary to minimize adverse environmental effects or based on any other factor of the public interest. Failure to comply with all conditions of the authorization, including special conditions, will constitute a permit violation and may subject the permittee to criminal, civil, or administrative penalties or restoration.

32. **False or Incomplete Information.** If the Corps makes a determination regarding the eligibility of a project under this permit and subsequently discovers that it has relied on false, incomplete, or inaccurate information provided by the permittee, the permit shall not be valid and the government may institute appropriate legal proceedings.

33. **Abandonment.** If the permittee decides to abandon the activity authorized under this general permit, unless such abandonment is merely the transfer of property to a third party, he/she must restore the area to the satisfaction of the District Engineer.

34. **Enforcement cases.** This general permit does not apply to any existing or proposed activity in Corps jurisdiction associated with an on-going Corps of Engineers or Environmental Protection Agency enforcement action until such time as the enforcement action is resolved or the Corps determines that the activity may proceed independently without compromising the enforcement action. The Corps may choose not to accept applications or issue permits to any applicant with outstanding violations.

35. **Emergency situations.** This PGP can be used to authorize the repair, rehabilitation, or replacement of those structures destroyed by storms, floods, fire or other discrete unexpected and catastrophic event. In such situations and if the work exceeds Category I limitations, if applicant applies to the Corps within 30 days of the event, the Corps will attempt to contact the resource agencies for their approvals but, if unable to contact them, will issue an emergency permit and review them after-the-fact with the agencies at the next joint processing meeting. Proposed work submitted more than 30 days after the emergency will go through the standard PGP procedures.

DURATION OF AUTHORIZATION/GRANDFATHERING:

36. **Duration of Authorization.** Activities authorized under this general permit that have commenced (i.e., are under construction) or are under contract to commence in reliance upon this authorization will remain authorized provided the activity is completed within twelve months of the date of the general permit's expiration, modification, or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke the authorization in accordance with 33 CFR 325.2 (e)(2). Activities completed under the authorization of the general permit that was in effect at the time the activity was completed will continue to be authorized by the general permit.

37. **Previously Authorized Activities.**

(a) Activities which have commenced (i.e., are under construction or are under contract to commence) prior to the issuance date of this general permit, in reliance upon the terms and conditions of the non-reporting category of the previous Maine PGP shall remain authorized provided the activity is completed within twelve months of the date of issuance of this general permit, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke the authorization in accordance with special condition 4. The applicant must be able to document to the Corps satisfaction that the proj ect was under construction or contract by the appropriate date.

(b) Projects that have received written verification or approval from the Corps, based on applications made to the Corps prior to issuance of this general permit, for the previous Maine SPGP and PGP, Nationwide permits, regional general permits, or letters of permission shall remain authorized as specified in each authorization.

(c) This general permit does not affect activities authorized pursuant to 33 CFR Part 330.3 (activities occurring before certain dates).

For DISTRICT ENGiNEER Christine Gedfrey DATE 7 / 26 / 00

CONTACTS FOR MAINE PROGRAMMATIC GENERAL PERMIT:

U.S. Army Corps of Engineers
Maine Project Office
675 Western Avenue #3
Manchester, Maine 04351
207-623-8367
Fax # 207-623-8206

Federal Endangered Species
U.S. Fish and Wildlife Service
Maine Field Office
1033 South Main Street
Old Town, Maine 04468
207-827-5938
Fax # 207-827-6099

Federal Endangered Species and Essential Fish Habitat
National Marine Fisheries Service
One Blackburn Drive
Gloucester, Massachusetts 01939
978-281-9102
Fax # 978-281-9301

Wild and Scenic Rivers
National Park Service
North Atlantic Region
15 State Street
Boston, MA 02109
617-223-5203

Maine Historic Preservation Commission
55 Capitol Street
State House Station 65
Augusta, Maine 04333
207-287-2132
Fax # 207-287-2335

Aroostook Band of Micmacs
P.O. Box 772
Presque Isle, Maine 04769
207-764-1972
Fax # 207-764-7667

Passamaquoddy Tribe of Indians
Pleasant Point Reservation
Attn: Tribal Council
P.O. Box 343
Perry, Maine 04667
207-853-2600
Fax # 207-853-6039

Houlton Band of Maliseet Indians
Attn: Brenda Commander, Tribal Chief
Route 3 - Box 450
Houlton, Maine 04730
207-532-4273
Fax # 207-532-2660

Passamaquoddy Tribe of Indians
Indian Township Reservation
Attn: Donald Soctomah
P.O. Box 301
Princeton, Maine 04668
207-796-2301
Fax # 207-796-5256

Penobscot Indian Nation
Richard Hamilton, Chief
6 River Road
Indian Island Reservation
Old Town, Maine 04468
(207) 827-7776
Fax # 207-827-1137

Maine Department of Environmental Protection
(For State Permits and Water Quality Certifications)
Natural Resources Division
Bureau of Land and Water Quality Control
State House Station 17
Augusta, Maine 04333
207-287-2111

Southern Maine Regional Office
312 Canco Road
Portland, Maine 04103
201-822-6300

Eastern Maine Regional Office
106 Hogan Road
Bangor, Maine 04401
207-941-4570

Northern Maine Regional Office
1235 Central Drive
Skyway Park
Presque Isle, Maine 04769
207-764-0477

MaineLand UseRegulation Commission (LURC) offices
22 State House Station
Augusta, ME 04333-0022
207-287-2631
800-452-8711 (call to obtain appropriate LURC of fice)
Fax # 207-287-7439

45 Radar Road
Ashland,ME 04732-3600
207-435-7963
Fax # 207-435-7184

Lakeview Drive
P.O.BoxllO7
Greenville, ME 04441
207-695-2466
Fax # 207-695-2380

191 Main Street
EastMillinocket,ME 04430
207-746-2244
Fax # 207-746-2243

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(For CZMDeterminations)
State Planning Office
Coastal Program
184 State Street
State House Station 38
Augusta, Maine 04333
207-287- 1009

Maine Department of Marine Resources
(For Aquaculture Leases)
McKown Point
Boothbay Harbor, Maine 04575
207-633-9500

(For Submerged Lands Leases)
Maine Department of Conservation
Bureau of Parks and Lands
22 State House Station
207-287-3061

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A. INLAND WETLANDS (WATERS OF THE U.S.)[1]	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(a) NEW FILL/ EXCAVATION DISCHARGES	Less than 4,300 sf inland waterway and /or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared). -- Includes projects covered by a State Tier One permit with no cumulative impacts over 15,000 sf in inland wetlands from previous permits, unauthorized work, and/or other state permits. -- Includes crossing of perennial waterways designated as Essential Fish Habitat (EFH) for Atlantic salmon[2] if the waterway is crossed with a span and footprints of the span abutments are outside ordinary high water with no more than 4,300 sf of associated wetland impact. -- Includes in-stream work of up to 4,300 sf of fill below ordinary high water in waterways not designated as EFH for Atlantic salmon[2] and performed in accordance with Maine Permit By Rule standards or a LURC permit.	4,300 sf to 3 acres inland waterway and/or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared). -- Impact area includes all temporary and permanent fill and excavation discharges except for incidental fallback. -- Includes in-stream work, including crossings (other than a spanned crossing as described in Category I) with any discharge of fill below ordinary high water in perennial waterways designated as EFH for Atlantic salmon[2]. -- Time of year restrictions determined case-by-case.	Greater than 3 acres inland waterway and/or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared). -- Impact area includes all temporary and permanent fill and excavation discharges except for incidental fallback[3]. In-stream work exceeding Category II limits. If EIS required by the Corps.

[1] Water of the U.S. in inland areas: inland rivers, streams, lakes, ponds and wetlands.

[2] Essential Fish Habitat for Atlantic salmon includes all aquatic habitats in the watersheds of the following rivers and streams, including all tributaries to the extent that they are currently or were historically accessible for salmon migration: St. Croix, Boyden, Dennys, Hobart Stream, Aroostook, East Machias, Machias, Pleasant, Narraguagus, Tunk stream, Patten Stream, Orland, Penobscot, Passagassawaukeag, Union, Ducktrap, Sheepscot, Kennebec, Androscoggin, Presumpscot and Saco River.

[3] The larger the impacts, the more likely an individual permit will be required. Projects involving widening, expansion or impacts to degraded or low value wetlands between 1-3 acres may be approved under Category II, subject to the Federal screening. The Corps recognizes and endorses the DEP Tier 2 upper thresholds of 1 acre. Compensatory mitigation is likely to be required at this level of impact.

	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(a) NEW FILL/ EXCAVATION DISCHARGES	-- Impact area includes all temporary and permanent fill and excavation discharges except for incidental fallback. -- In-stream work limited to July 15 - Oct. 1. -- This category excludes situations when a vernal pool of any size may be impacted, in accordance with the ME DEP definition of vernal pool[4]. -- This category excludes work within ¼ mile or a Wild and Scenic River[5]. -- This category excludes dams, dikes, or activities involving water withdrawal or water diversion. -- This category excludes work in National Wildlife Refuges.	Proactive restoration projects with any amount of impact can be reviewed under Category II. The Corps, in consultation with State and Federal agencies, must determine that net adverse effects are not more than minimal.	
(b) BANK STABILIZATION PROJECTS	Inland bank stabilization less than 500 ft. long and less than 1 cy fill per linear foot below ordinary high water in ponds, lakes, and waterway not designated as EFH for Atlantic salmon[2], provided there is no wetland fill. -- In-stream work limited to July 15 - Oct. 1.	Inland bank stabilization in ponds, lakes, and waterways not designated as EFH for Atlantic salmon[2] which exceeds Category I limits. Inland bank stabilization of any size below ordinary high water in waterways designed as EFH for Atlantic salmon[2]. -- Other stabilization exceeding Category I.	
(C) REPAIR AND MAINTENANCE OF AUTHORIZED FILLS	Repair or maintenance of existing, currently serviceable, authorized fills with no substantial expansion or change in use.	Replacement of non-serviceable fills, or repair or maintenance of serviceable fills with expansion of any amount up to 1 acre, or with a change in use.	Replacement of non-serviceable fills, or repair or maintenance of serviceable fills with greater than 1 acre of expansion.

[4] Vernal Pool: Naturally-occurring, or intentionally created for the purposes of compensatory mitigation, temporary to permanent bodies of water occurring in shallow depressions that fill during the spring and fall and may dry during the summer. Vernal pools have no permanent or viable populations of predatory fish. Vernal pools provide the primary breeding habitat for wood frogs, spotted salamanders, blue-spotted salamanders, and fairy shrimp, and provide habitat for other wildlife including several endangered and threatened species.

[5] National Wild/Scenic Rivers System (Designated River in Maine): Allagash River beginning at Telos Dam continuing to Allagash checkpoint at Eliza Hole Rapids, approximately 3 miles upstream of the confluence with the St. John River. Length = 92 miles.

4 5 6 7 8 ?

B. TIDAL WATERS AND NAVIGABLE WATERS[6]	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(a) FILL		Up to 1 acre waterway or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared). Includes temporary and permanent waterway fill. -- Temporary tidal marsh impacts up to 1 acre. -- Permanent tidal marsh, mudflat, or vegetated shallows[7] fill up to 1,000 sf. -- Proactive restoration projects with any amount of impact can be reviewed under Cat. II. The Corps, in consultation with State and Federal agencies, must determine that net adverse effects are not more than minimal.	Greater than 1 acre waterway fill and secondary impacts (e.g., areas drained, flooded or cleared). Includes -- Temporary tidal marsh impacts over 1 acre. -- Permanent tidal marsh, mudflat, or vegetated shallows[7] fill over 1,000 sf.
(b) REPAIR AND MAINTENANCE WORK	Repair or maintenance of existing, currently serviceable, authorized structure or fills with no substantial expansion or change in use. -- Work must be in same footprint as original structure or fill	Repair or replacement of any non-serviceable structures or fill, or repair or maintenance of serviceable fills with expansion of any amount up to 1 acre, or with a change in use.	Replacement of non-serviceable structures or fill or repair or maintenance of serviceable structure or fill with expansion greater than 1 acre.

6 Navigable Waters: waters that are subject to the ebb and flow of the tide and Federally designated navigable waters (Penobscott River to Medway, Kennebec River to Moosehead Lake, and the portion of Umbagog Lake in Maine).

7 Vegetated Shallows: subtidal areas that support rooted aquatic vegetation such as eelgrass.

	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(c) DREDGING	Maintenance dredging of less than 1,000 cy with upland disposal. -- Proper siltation controls used -- Limited to work between November 1 and January 15. -- No impact to special aquatic sites8	Maintenance dredging of greater than 1,000 cy, new dredging of up to 25,000 cy, or projects that do not meet Category I. Disposal includes upland, open water or beach nourishment (above mean high water), only if material is determined suitable.	Maintenance dredging (any amount) in or affecting special aquatic sites7. See B(a) above for dredge disposal in wetlands or water. New dredging greater than 25,000 cy or any amount in or affecting special aquatic sites7.
(d) MOORINGS	-- Private, non-commercial, non-rental single boat moorings not associated with any boating facility? provided not located in a Federal Navigation Project, there is no interference with navigation, it is not located in vegetated shallows6, and it is within ¼ mile of the owner's residence or a public access point1o. -- Minor relocation or previously authorized mooring and moored floats consistent with Harbormaster recommendations, provided it is also consistent with local regulations, is not located in vegetated shallows, and does not interfere with navigation.	Moorings that do not meet the terms of Category I (e.g., rental or service moorings) and moorings that meet the terms of Category I that are located in a Federal anchorage.	Moorings within the horizontal limits, or with moored vessels that extend, into the horizontal limits of a Federal Navigation Project, except those in Federal anchorages under Category II.

8 Special Aquatic Sites: include wetlands and salt marsh, mudflats, riffles and pools, and vegetated shallows.

? Boating Facilities: facilities that provide, rent, or sell mooring space, such as marinas, yacht, clubs, boat clubs, boat yards, town facilities, dockominiums, etc.

1o Cannot be at a remote location to create a convenient transient anchorage.

	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(e) PILE-SUPPORTED STRUCTURES AND FLOATS	Reconfiguration of existing authorized docks, provided structures are not positioned over vegetated shallows[6] or salt marsh and provided floats are supported off substrate at low tide. No dredging, addition slips or expansion allowed.	Private piers and floats for navigational access to waterway (seasonal and permanent).	Structures, piers or floats that extend, or with docked/moored vessels that extend, into the horizontal limits of a Federal Navigation Project. Structures, including piers and floats, associated with a new or previously unauthorized boating facility[8].
(f) MISCELLANEOUS	-- Temporary buoys, markers, floats, etc., for recreational use during specific events, provided they are removed within 30 days after use is discontinued. -- Coast Guard approved aids to navigation. -- Oil spill clean-up temporary structures or fill. -- Fish/wildlife harvesting structures/fill (as defined by 33 CFR 330, App. A-4) -- Scientific measurement devices and survey activities such as exploratory drilling, surveying or sampling. -- Shellfish seeding (brushing the flats) projects[11]. -- Does not include oil or gas exploration and fills for roads or construction pads. -- This category excludes work in National Wildlife Refuges.	-- Structures or work in or affecting tidal or navigable waters that are not defined under any or the previous headings. Includes, but is not limited to, utility lines, aerial transmission lines, pipelines, outfalls, boat ramps, bridge fills/abutments, etc. -- Shellfish/finfish (other than Atlantic salmon), or other aquaculture facilities which are consistent with the Corps revised standard siting requirements and standard permit conditions dated 7/6/94, or as revised.	If EIS required by Corps.

[11] Brushing the flats: the placement of tree boughs, wooden lath structures, or small-mesh fencing on mudflats for the purpose of enhancing recruitment of soft-shell clams (Mya arenaria).